

Suzanne Braine
University of Alaska, Anchorage
1982-83 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 Fairbank, Kenai-Soldotna, Ketchikan, Kodiak, Nome, Palmer, Sitka, Valdez and 12 Rural Education Centers. 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 service and benefits to all students and employees without regard to race, color, religion, national origin, sex, age, disability, or status as a Vietnam era or disabled veteran. This policy is in accordance with the laws enforced by the Department of Education and the Department of Labor, including Presidential Executive Order 11246, as amended, Title VI and Title VII of the 1964 Civil Rights Act, Title IX of the Education Amendments of 1972, the Public Health Service Act of 1971, the Veteran's Readjustment Assistance Act of 1974, the Vocational Rehabilitation Act of 1973, the Age Discrimination Acts of 1974-75, and Alaska Statute 18.80.220. Inquiries regarding application of these and other regulations should be directed either to the Statewide Affirmative Action Officer of the University of Alaska; the Office of Civil Rights, Department of Education, Washington, D.C.; or to the Office of Federal Contract Compliance Programs, Department of Labor, Washington, D.C.

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University of Alaska, Anchorage

1982-83 Catalog

Catalogs are available from the Office of Admissions and Records, University of Alaska, Anchorage, 3211 Providence Drive, Anchorage, Alaska 99508. Telephone: (907) 263-1481.

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

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

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

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



Academic Calendar University of Alaska, Anchorage

Fall Semester 1982

Fall 1982 Early Registration (for Continuing Students)	Apr 22-23
Fall 1982 Applications for Admission Due	May 01
Early Registration Fees Due in Full	Aug 18
Fall 1982 Regular Registration	Sept 1-3
Early Registration Add/Drop Period	Sept 1-3
Labor Day Holiday	Sept 06
Instruction Begins	Sept 07
Late Registration Begins	Sept 07
Late Registration Fee Begins	Sept 07
Regular Registration Add/Drop Begins	Sept 07
Add/Drop Fee Begins	Sept 09
Late Registration Ends	Sept 21
Add Deadline (end of third week)	Sept 24
Drop Deadline (end of third week)	Sept 24
Fall 1982 Applications for Diploma Due	Sept 24
No Refunds On or After	Sept 29
Spring 1983 Applications for Admission Due	Oct 01
Withdrawal Deadline (end of seventh week)	Oct 22
Applications for Graduate Admission Due	*
Spring 1983 Early Registration (for Continuing Students)	Dec 2-3
Thanksgiving Holiday	Nov 25-26
Final Examination Week Begins	Dec 13
Last Day of Instruction	Dec 18

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

Spring Semester 1983

Spring 1983 Applications for Admission Due	Oct 01
Spring 1983 Early Registration (for Continuing Students)	Dec 2-3
Early Registration Fees Due in Full	Dec 2-3
Spring 1983 Regular Registration	Jan 5-7
Early Registration Begins Add/Drop Period	Jan 5-7
Instruction Begins	Jan 10
Late Registration Begins	Jan 10
Late Registration Fee Begins	Jan 10
Regular Registration Add/Drop Begins	Jan 10

4 Academic Calendar

Add/Drop Fee Begins.....	Jan 12
Late Registration Ends.....	Jan 24
Add Deadline (end of third week)	Jan 28
Drop Deadline (end of third week)	Jan 28
Spring 1983 Applications for Diploma Due.....	Jan 28
No Refunds On or After.....	Feb 01
Withdrawal Deadline (end of seventh week)	Feb 25
Spring Vacation	Mar 28-Apr 1
Summer 1983 Applications for Admission Due.....	April 01
Applications for Graduate Admission Due.....	*
Fall 1983 Early Registration (for Continuing Students)	April 21-22
Final Examination Week Begins.....	April 25
Fall 1983 Applications for Admission Due	April 29
Last Day of Instruction	April 30
Commencement.....	May 6

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



DEGREE PROGRAMS

BACHELOR OF ARTS:

Anthropology
Art
Biological Sciences
Economics
English
History
Interdisciplinary Studies
Journalism & Public Communications

Justice
Mathematics
Music
Political Science
Psychology
Sociology
Theater

BACHELOR OF BUSINESS ADMINISTRATION

Accounting
Banking
Economics
Finance

Labor Relations
Management
Marketing
Real Estate

BACHELOR OF EDUCATION

Elementary Education
Secondary Education
Physical Education

BACHELOR OF FINE ARTS with a major in Art

BACHELOR OF MUSIC

Elementary Education
Secondary Education
Performance

BACHELOR OF SOCIAL WORK with a major in social work

BACHELOR OF SCIENCE:

Anthropology
Biological Sciences
Chemistry
Civil Engineering
Interdisciplinary Studies
Mathematics

Medical Technology
Natural Sciences
Nursing Science
Psychology
Sociology

BACHELOR OF TECHNOLOGY with a major in Business Administration

MASTER OF ARTS

English
Interdisciplinary Studies

MASTER OF ARTS IN TEACHING

English

MASTER OF FINE ARTS

Creative Writing

MASTER OF BUSINESS ADMINISTRATION

MASTER OF EDUCATION

Adult Education
Counseling and Guidance
Elementary Education
Public School Administration

Reading
Special Education
Secondary Education

6 Degree Programs

MASTER OF PUBLIC ADMINISTRATION

MASTER OF SCIENCE

Arctic Engineering
Biological Sciences
Civil Engineering
Counseling Psychology
Environmental Quality Engineering
Environmental Quality Science

Engineering and Science Management
Interdisciplinary Studies
Nursing
Planning
Real Estate

MASTER OF CIVIL ENGINEERING

Civil Engineering





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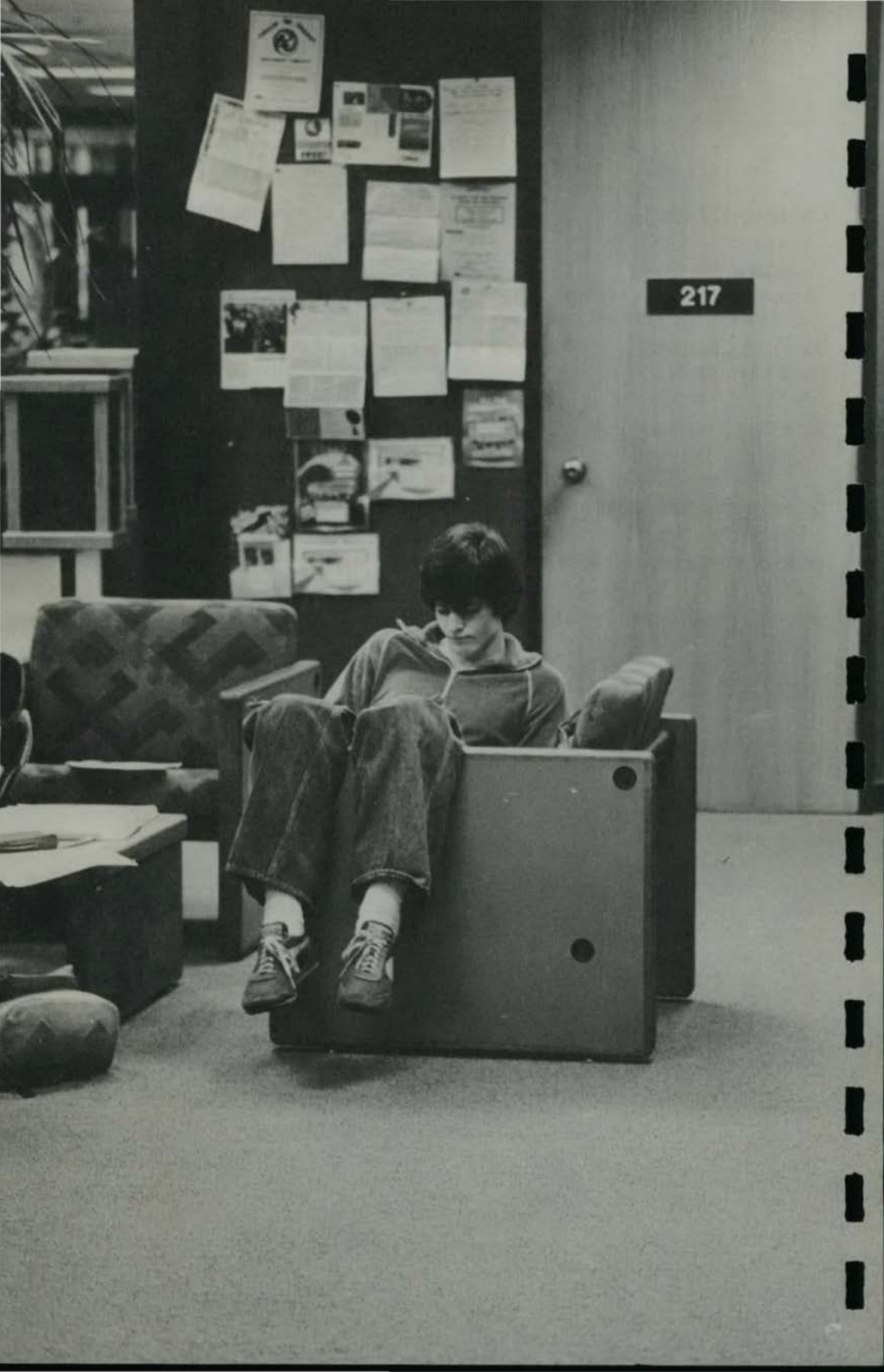
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GENERAL INFORMATION

Introduction

The University of Alaska, Anchorage is a four-year and graduate institution accredited by the Commission on Colleges of the Northwest Association of Schools and Colleges. Since its creation in 1969, UAA has established a record of continuing growth and development in both its academic and public service activities.

The student population currently numbers around 4,000 full- and part-time students. There are seven schools and centers which form the basis of the University. These include the College of Arts and Sciences; School of Business and Public Administration; School of Education; School of Engineering; School of Nursing; Justice Center; and Center for Alcohol and Addiction Studies.

Classes are taught almost exclusively by faculty members with doctoral degrees, insuring the student close contact with top quality faculty members. UAA classes rarely exceed thirty students, and upper division courses are usually composed of a maximum of a dozen students.

Located on an attractive wooded campus, UAA is convenient to shopping, housing and entertainment. The university is served by a public transportation system and many facilities are within walking distance of the school.

Surrounded by the spectacular scenery of snow-capped Alaskan peaks, UAA is only minutes away from fishing, hunting and wilderness recreation.

Although located in Alaska, UAA is centered in the so-called banana belt of the state. Summertime temperatures range between 60 and 70 degrees. Summer days are filled with sunshine and long days when the sun sets only briefly. Winters are less severe in Anchorage than in many other U.S. cities. Normal lows range from 5 degrees below zero to 25 degrees above.

Anchorage is "The Air Cross Roads of the World" and is the chief business and entertainment center for the state. The greater Anchorage Area contains about half the state's population with some 200,000 people calling the city home.

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.

Continuing Education

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

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 seventh 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 thirty 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 is a professional center with statewide responsibility to meet the continuing and increasing need for research and evaluation, education, training and public service in the areas of alcoholism and other drug abuse in Alaska.

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

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

The majority of the Center's education and training programs and courses conform to the competency-based counselor training curricula developed by the Center for the State of Alaska and are available throughout the statewide University system. In addition, these courses have been approved by the Alaska Alcoholism and Drug Abuse Certification Board as meeting the State Counselor Certification Standards.

The courses are as follows:

Psy.	224	Substance Abuse Counseling I. 3 credits.
Psy.	225	Substance Abuse Counseling II. 3 credits.
Psy.	450	Rehabilitation of the Substance Abuser. 3 credits.
Psy.	452	Crisis Intervention. 3 credits.
BA	335	Management Principles and Practices. 3 credits.
BA	361	Personnel Management. 3 credits.

It should be noted that all courses, except for BA 335 and BA 361, which are regular offerings of the School of Business and Public Administration, are offered only in the event that special support is made available to the Center for Alcohol and Addiction Studies.

All courses are listed in corresponding departmental sections of this catalog.

The Center for Alcohol and Addiction Studies is working toward awarding a Certificate of Completion of Study and an Advanced Certificate of Completion of Study to those individuals who have successfully completed the necessary Substance Abuse Counselor Training Curriculum courses.

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

The Center also conducts a wide range of public service projects which include conferences and workshops for the general public. In addition, the Center maintains a resource library of books, journals, films, and video and audio tapes in support of its educational and training programs. Consultation services in the areas of program planning, development, implementation, administration and evaluation are also available.

Justice Center

The Justice Center was created in 1975 by the University as an entity with statewide responsibility for research, higher education and community service in the areas of crime and the administration of justice. The Center has the authority — at its own initiative or in response to requests from outside the University — to conduct

research and action programs related to deviance and justice; provide professional inservice training and career development programs; develop, implement and evaluate action programs related to Alaskan bush areas and problems; and provide assistance and support to community organizations and citizens concerned about crime and the improvement of the administration of justice. It also is the University unit with primary responsibility for planning and coordinating academic programs related to crime, policing, corrections and legal studies.

The Center offers a baccalaureate degree program at the University of Alaska, Anchorage for students whose plans for the future include a career or substantial policy interest in legal, police or corrections fields. Courses offered by the Center are designated "Justice" in this catalog. Any students wishing to pursue a baccalaureate degree in justice should contact the Justice Center for counseling early in his or her academic career.

Facilities

Student Center

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

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

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

University Library System

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

Library collections comprise more than 350,000 bound volumes and government documents. Special collections include materials on Alaska and the Arctic region, 40,000 pieces of choral music and a large number of pieces of symphonic music. The Library has collections of unpublished archives and manuscripts for the reference and research needs of library clientele. Non-print materials, except for video tapes and 16mm films, are housed in the Library. The latter are available from Media Services at the Anchorage Community College. The Library offers to its patrons at cost a computer searching service involves access to a wide number of data bases in a variety of subjects.

While service to academic clientele on campus is the first priority, under certain conditions 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, including reference service, are provided during most of the hours the Library is open. The circulation policy provides for one-month book charges to faculty and students, with the privilege of renewing unless the material is in demand.

Several credit courses are offered to students seeking to expand their skills in use of the Library.

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

Physical Education Building

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 departments of the College of Arts and Sciences and 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.

The College of Arts and Sciences Building

This building is home to the largest of the University's schools and centers. The College includes liberal arts, natural sciences and social sciences. Linked to the University's library building, the College of Arts and Sciences structure houses classrooms and office facilities.

The Classroom/Office Building

Newest of the University's facilities, the structure houses the School of Engineering, the School of Business and the Art Department.

A brand new complex, the building provides classroom and office space. Located along the megastructure of the campus, this building contains laboratories, classrooms and specialized seminar rooms to the University.

STUDENT LIFE

Student Conduct

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

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

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

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) job placement for graduating students and graduates of UAA; 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; 7) the promotion of high standards of academic and social conduct, and 8) intramural and recreation programs.

Student Development Center

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

Advising

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

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. 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.

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 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 UAA Affirmative Action Officer, the University Statewide EEO/AA Officer, or the Office of Federal Compliance Programs, Federal Building, Anchorage, Alaska for advice and direction.

Financial Aids

The Financial Aid Office assists students and prospective students in securing the funds needed to begin or to continue studies at the University. The state and federal governments, the University and many private organizations make available financial assistance in the forms of grants, scholarships, loans and employment opportunities to students who demonstrate the need for such assistance to attend school. 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. Amount and type of award may vary depending upon State and Federal guidelines, student needs, and availability of funds.

Eligibility

To be considered for financial aid a student must 1) have a high school diploma or its equivalent; 2) be accepted for admission or continued attendance at UAA; 3) be currently enrolled for at least six credits per semester in a degree program; 4) demonstrate financial need by submitting the Financial Aid Form to the College Scholarship Service; 5) apply for financial aid by completing the Financial Aid Application and submitting it to the Financial Aid Office, and 6) maintain satisfactory academic programs during the payment period.

Application Procedures

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

- 1) Complete the FINANCIAL AID FORM and mail it with the processing fee to the College Scholarship Service, Box 380, Berkeley, California, 94701. Be sure to apply for the Basic Educational Opportunity Grant by checking the appropriate block. The University of Alaska, Anchorage code number is 4896.
- 2) Complete the University of Alaska Financial Aid application and return it to the Financial Aid Office.

- 3) Submit the Student Eligibility Report (SER) from the Basic Opportunity Grant to the Financial Aid Office.
- 4) Students who wish to apply for additional aid, such as the Alaska State Student Loan, the Bureau of Indian Affairs Grant or specific scholarships, must submit special applications available from the Financial Aid Office.
- 5) Students who have previously attended another postsecondary institution must submit a Financial Aid Transcript.

Types of Financial Aid

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

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

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

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

Loans

- 1) NDSL — National Direct Student Loan. The National Direct Student Loan program is available to students enrolled at least half-time and who need a loan to meet their educational expenses. An undergraduate may borrow up to \$5,000 for study toward a bachelor's degree; a graduate student may borrow up to \$10,000 (including any amount borrowed under NDSL as an undergraduate).
- 2) ASSL — Alaska State Student Loan. Any full-time student who is a two-year resident of the State of Alaska and has a high school diploma or the equivalent is eligible to apply for an Alaska Student Loan. Undergraduate students may borrow up to \$6,000 a year to pay for educational expenses. Graduate students may borrow up to \$7,000 per year. Applications are available at the Financial Aid Office and are submitted to the Postsecondary Commission, Financial Aid Office in Juneau.
- 3) NSLS — Nursing Student Loans and Scholarships. The Nursing Student Loan and Scholarship programs are available to students enrolled at least half-time in nursing. Students must be capable of maintaining good standing and demonstrate financial need. Eligible students may receive a scholarship of up to \$2,000 per academic year. Eligible students may borrow up to \$2,500 per academic year and a maximum amount of \$10,000.
- 4) GSL — Guarantee Student Loan. The Guaranteed Student Loan program enables students to borrow directly from lenders in order to finance educational expenses. These loans are made by local lending institutions and insured by the United Student Aid Funds, Inc. An undergraduate or graduate student enrolled at least half-time may apply for a USA Fund loan. Undergraduates may borrow a maximum of \$2,500 per academic year; graduate students may borrow up to \$5,000 per academic year. The maximum to be borrowed for undergraduate study is \$7,500; the maximum for graduate study is \$15,000, including any amount borrowed for undergraduate study.
- 5) ELF — Emergency Loan Fund. Short term loans are available to students whose financial need is modest and temporary. A full-time student may borrow a maximum of \$100 for up to 30 days.

Grants

- 1) Pell — BEOG — Basic Educational Opportunity Grant. The Pell Grant program makes funds available to eligible students attending postsecondary institutions.
- 2) SEOG — Supplemental Educational Opportunity Grant. The Supplemental Educational Opportunity Grant program is similar to the Pell Grant and can provide additional assistance to students. Only undergraduates are eligible. SEOG awards range between \$200 and \$2,000 per year. Normally an SEOG may be received for up to four years.

- 3) BIA — Bureau of Indian Affairs. The Bureau of Indian Affairs makes grants available to eligible full-time students. Applicants must be at least one-fourth Alaskan Native or American Indian. For further information, contact the local BIA area office or regional corporation.

Scholarships

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

General

Alaska Magazine
Alaskan of the Year Scholarship
Anchorage Business and Professional Women's Club Scholarship Fund
Duty Free Shoppers, Ltd.
Endowment Fund Scholarship
Soroptimists
Tuition Waivers
University of Alaska Alumni Association Talent Grants
Yukon Office Supply

Accounting

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

Art

Muriel Hannah

Education

Cook Inlet Chapter, Phi Delta Kappa

Geology

Chugach Gem and Mineral Society

Home Economics

Anchorage Home Economics Association

Medical Careers

Alaska State Medical Auxiliary

Police Administration

Alaska Peace Officers Association

Secretarial

National Secretaries Association, Billikin Chapter

Contact the Financial Aids office for additional scholarships.

Employment

- 1) CWSP — College Work-Study Program. The College Work-Study Program provides jobs for eligible students who have need and who wish to earn a part of their educational expenses. 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 twenty hours per week during the semester. Maximum wages depend on the job and the student's qualifications. Most salaries are comparable with off-campus part-time employment.
- 2) Other Employment. Students not eligible for the College Work-Study Program who desire assistance in securing part-time employment should contact the Placement Office. The Personnel Office has a listing of other part-time and full-time positions on campus.

Student Government

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

Athletics and Recreation

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

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

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

University Community Ministry

University Community Ministry is a means by which segments of the Christian community of Anchorage seek to relate to the city's major postsecondary educational institutions. Through a variety of means, including programs, student activities, faculty discussion groups, courses, and counseling, UCM seeks to be a religious presence within the institutions and to meet wide ranging needs and interests of students, faculty and staff. UCM also seeks to facilitate cooperation and understanding between participating churches and the educational institutions so that both might function more effectively.

Veterans

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

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

VA Benefits and Satisfactory Progress

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

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

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

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

Veterans placed on probation for not being in good academic standing or not making satisfactory progress in accordance with the academic regulations of the University of Alaska, Anchorage must be 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. Regular office hours are 8 A.M. to 5 P.M., Monday through Friday.

Military Evaluations

Any student who has been admitted to the University of Alaska, Anchorage 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 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.

ADMISSIONS

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

To be enrolled in coursework 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 a graduate (600) level and the student has the instructor's written permission.

Student 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 the University of Alaska, Anchorage or who has completed more than 30 semester hours of college credit, including transfer credit.

FRESHMAN REGULAR STUDENTS

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.

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 probation. After completion of not fewer than 30 semester hours of credit at UAA with at least a 2.0 (C) grade-point average, probationary status will be removed.

TRANSFER REGULAR 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).

RETURNING REGULAR STUDENTS

Former students who have not been in attendance for one fall or one spring semester or longer must reapply for admission. 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 of Alaska, Anchorage; 3) are applying for admission to a different degree program.

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 admission 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. Permission to enroll as a Special Student is granted for one semester at a time and implies no commitment on the part of the University regarding later admission to a degree program. 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 credit. Except as indicated below for Temporary and High School Special Students, the application fee will be charged for those seeking admission as Special Students.

TEMPORARY SPECIAL 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. Students classified as Temporary Special Students are not charged the application fee. Temporary status is approved for only one semester.

POST-BACCALAUREATE SPECIAL STUDENTS

A Post-Baccalaureate Student is a Special Student who has earned a baccalaureate degree and who is not seeking an advanced graduate degree. A student who wishes to enroll in courses as a Post-Baccalaureate Student 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.

HIGH-SCHOOL SPECIAL 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 semester. Special High-School Students are not charged the application fee.

GRADUATE STUDENTS

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

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 a 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.

REQUIREMENTS FOR GOOD STANDING

A grade of B is the minimum passing grade in courses not primarily for graduate students (300 or 400); C will be accepted in graduate courses (600), provided the student maintains a B average.

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.

FOREIGN STUDENT ADMISSION

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

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

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.

PROBATIONARY ADMISSION

Probationary admission to UAA may be granted to 1) high-school graduates with a high-school grade-point average of at least 2.0; or 2) college transfer students with a college grade-point average of at least 1.75, provided that, for a student admitted on probation, a full-time program of study, which specifies the courses the student must complete in his first semester, approved by the dean of his college or school, must accompany the departmental admission recommendation. Probationary status will be removed after one semester if the student earns a cumulative grade-point average of 2.0. If he does not earn a 2.0 average, he will be dismissed from the University. (see Probation and Dismissal, page 44.)

TRANSFER OF CREDIT

Course credit at the 100 and 200 levels from an accredited Community College or Rural Education Center shall be accepted for full credit, up to a maximum of 72 semester hours.

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

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

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

The University of Alaska, Anchorage acts on a request for evaluation of transfer credit only after a student has been officially admitted. The University may accept, by transfer, credits from other accredited institutions when the grades of courses completed are C or above. Where possible, transfer credit will be equated with University of Alaska courses. The University reserves the right to reject work of doubtful quality or to require an examination before credit is allowed. Credits earned in non-accredited degree programs will not transfer to UAA accredited degree programs without departmental approval. **Acceptance of transfer credit towards degree programs is based upon departmental approval.**

A maximum of 30 credits will be awarded for a military service school evaluation. A maximum of 32 credits toward a baccalaureate degree will be awarded from DANTES/USAFI. College credit will not be allowed for the General Educational Development tests.

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, 99508. Unanswered questions may delay or disqualify the application. Applications for admission and all supporting documents must be submitted not later than 1 May for Fall Semester, 1 October for Spring Semester and 1 April for Summer Semester. Applications received after these dates will be processed if time permits and if space is available.

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

TRANSCRIPTS — Applicants who have never previously enrolled in any college or university must provide high school transcripts. The high school should forward the completed Secondary School Record to the Office of Admissions and Records. This transcript 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. 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.

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.

OFFICIAL TRANSCRIPTS OF CREDIT EARNED AT OTHER INSTITUTIONS, HIGH SCHOOL TRANSCRIPTS AND OTHER SUPPORTING DOCUMENTS WHICH HAVE BEEN PRESENTED FOR ADMISSION OR EVALUATION OF CREDIT BECOME THE PROPERTY OF THE UNIVERSITY AND ARE NOT REISSUED OR COPIED FOR DISTRIBUTION.

TRANSCRIPTS CANNOT BE ACCEPTED IF SUBMITTED DIRECTLY BY THE APPLICANTS.

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.

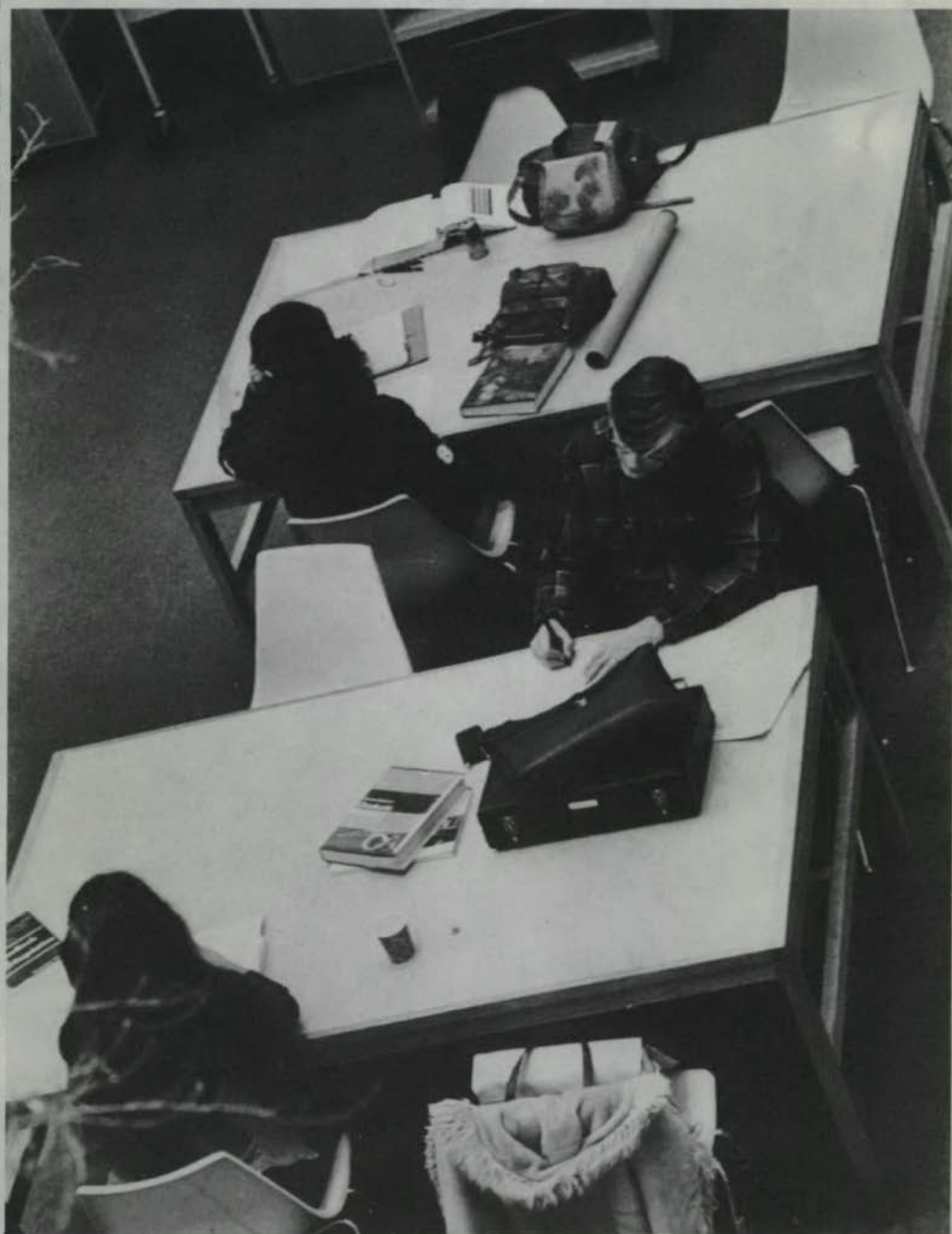
ACT OR SAT TESTS — Results from the tests prepared by the American College Testing Program or the Scholastic Aptitude Test are required for all entering Freshman and Transfer Students with less than 30 semester hours of credit. Test results must be on file with the Office of Admissions and Records before final acceptance can be granted. **Prerequisite for English 111, Methods of Written Communication: a score of 35 or above on the SAT Test of Standard Written English; 14 or above on the ACT English Usage Test; or a grade of P in English 090, Basic Writing.**

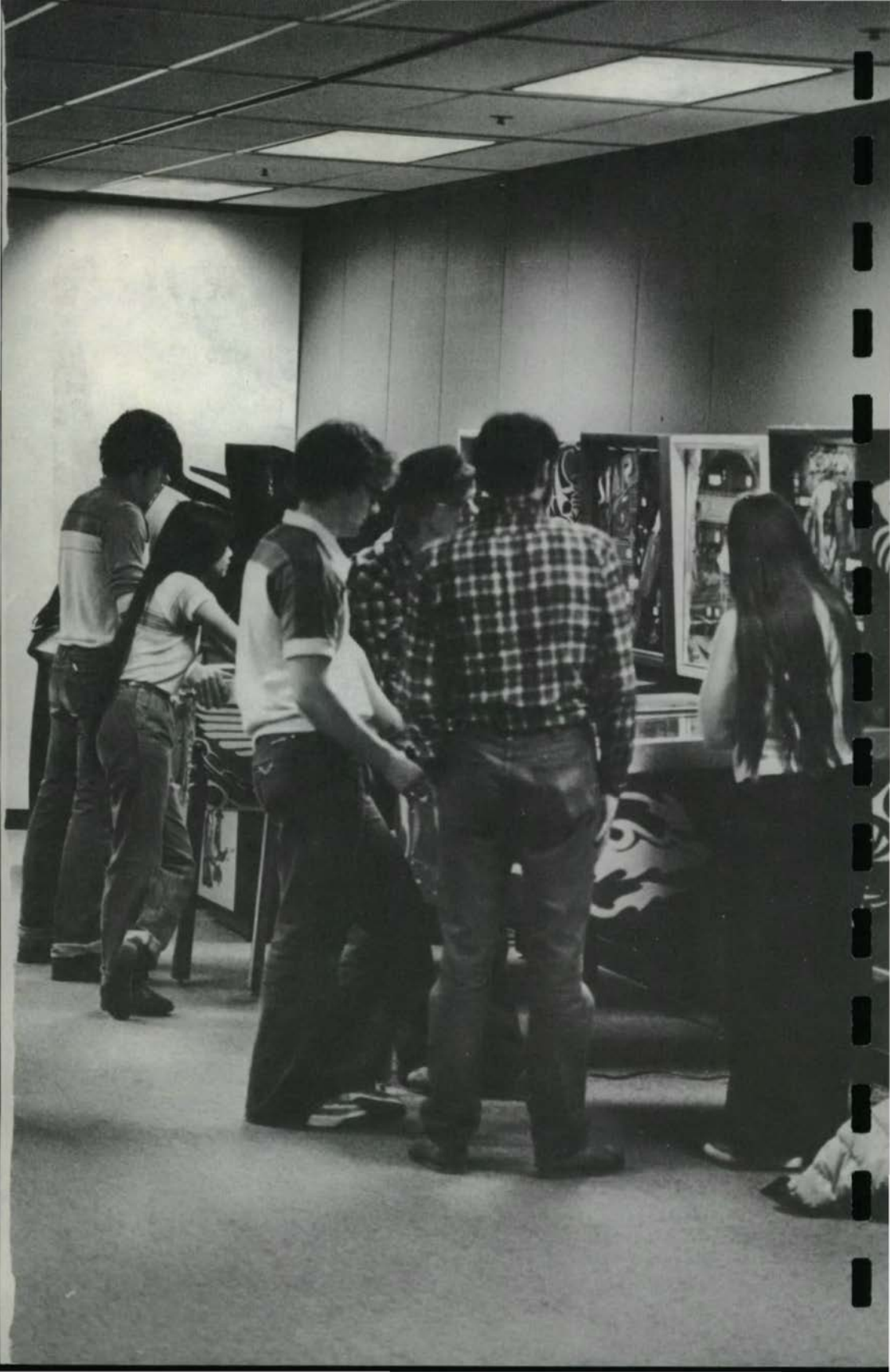
CONDITIONAL AND FINAL ACCEPTANCE — Qualified applicants can be accepted for admission while currently enrolled in their last semester of high school or at another college. However, the acceptance is conditional upon receipt of ACT or SAT scores and official transcripts indicating the satisfactory completion

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.





REGISTRATION POLICIES & PROCEDURES

Persons eligible for enrollment at the University of Alaska, Anchorage must be admitted and 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 early-registration system permits continuing students to develop and plan their course schedules months before the beginning of a semester.

The University is unable to guarantee that a particular course listed in this catalog will be offered during a given semester. The class schedule published and distributed prior to each semester gives the time and place of registration and lists the courses available in the semester. Registration for special programs, short courses, seminars and other classes that are not part of the regular academic calendar will be arranged prior to the beginning of such sessions.

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

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.)

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.

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.

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 the student must initiate extended registration that semester and pay required fees.

All students must be registered at the University of Alaska, Anchorage the semester in which they plan to graduate. Registration must be prior to the last day of late registration.

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 (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.

30 Registration Policies & Procedures

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 at the 500 level are professional development courses. They are graded only with pass/no-pass, and are not applicable toward a graduate degree program.

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

Courses ending in -93 are special topics; a -96 ending is used for unspecified directed study; a -97 ending, independent 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.

In a traditional course, one credit is granted for student effort totaling 42-60 hours. This is composed of at least 14 hours in class and 28 hours outside class. The total amount of student time required to earn one credit in independent or directed study courses should conform to the standard for total time applied to traditional courses.

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.

Registration Changes, Add/Drop And Withdrawal

(see calendar in front of catalog for dates)

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 changed according to the provisions below:

ADD/DROP POLICY:

DESIRED CHANGE	FIRST THREE WEEKS OF SEMESTER	FOURTH THROUGH SEVENTH WEEK OF SEM.	AFTER SEVENTH WEEK
ADD COURSE	instructor's signature required. add form filed in Admissions and Records \$2.00 fee charged per course	Not permitted	Not permitted
DROP COURSE	No signature required drop form filed in Admissions and Records will not appear on student's permanent record \$2.00 fee charged per course	Not permitted	Not permitted

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.

DESIRED CHANGE	FIRST THREE WEEKS OF SEMESTER	FOURTH THROUGH SEVENTH WEEK OF SEM.	AFTER SEVENTH WEEK
WITHDRAW FROM COURSE	Not permitted	no signature required will appear on student permanent record as W \$2.00 fee charged per course form filled with A & R	signature of instructor and dean required will appear on student's permanent record as W \$2.00 fee charged per course form filled with A & R
TOTAL WITHDRAWAL FROM UNIVERSITY	no signature required no fee charged will not appear on student's perm record form filed in A & R	no signature required no fee charged will appear on student perm record as W form filed in A & R	signature of instructor and Dean required no fee charged Will appear on student's permanent record as W form filed in A & R

CHANGES IN REGISTRATION

DESIRED CHANGE	FIRST THREE WEEKS OF SEMESTER	FOURTH THROUGH SEVENTH WEEK OF SEM.	AFTER SEVENTH WEEK
CREDIT/NO CREDIT OPTION	no signature required form filed in Admissions & Records no fee charged	Not permitted	Not permitted
CREDIT TO AUDIT (VICE VERSA)	instructor's signature form filed in Admissions & Records \$2.00 fee charged	instructor and dean's signature required form filed in Admissions & Records \$2.00 fee charged	Not permitted

Any student making an adjustment to his registration must show a copy of his registration receipt at the time of the Add/Drop or Withdraw transaction.



FEES, CHARGES, TUITION

Residency for Purposes of Tuition

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

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

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

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

Summary of Semester Charges

Consolidated Fee and Graduate Credit Charge — Residents

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

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

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

Total Credit Hours	Resident Undergraduate	Non-Resident Undergraduate	Resident Graduate	Non-Resident Graduate
1	\$ 25	\$ 25	\$ 40	\$ 40
2	50*	50*	80	80
3	75*	75*	120	120
4	100*	100*	160	160
5	125*	125*	200	200
6	150*	150*	240	240
7	175*	240*	280	345
8	205*	335*	320	450
9	205*	400*	320	515
10	205*	465*	320	580
11	205*	530*	320	645
12 or more	205*	595*	320	710

*An additional \$15/credit will be assessed for each graduate credit included in the totals. For purposes of tuition, any course numbered above 499 is considered graduate.

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.

Other Fees

Admission Fee (remit with application) Non-refundable.....	\$10
Student Activity Fees (per semester up to)	22
Drop/Add Fee (per transaction)	2
Late Registration Fee:	
First day.....	5
Each succeeding day.....	2
Placement and Guidance Test Fee	5
Placement Fee	10
Graduate Extended Registration Fee	40
Continuing Education Unit (per unit)	25
Transcripts.....	2

Fee Explanations

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

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

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

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

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

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

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

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

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

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

Student Activity Fee An activity fee up to \$22 per semester may be assessed to support student-related activities. There is no fee for military on-base courses.

Payment of Fees

All charges, deposits and fees for the semester are due at the time of registration. Students should be prepared to pay the full amount of charges for the semester when they register. Tuition and fee charges are subject to review and audit. Any University adjustment to an individual student's fee and tuition totals must be made within thirty days following the close of late registration or after any change in the student's schedule. The

student will be notified of any such adjustment by mail. No refunds will be given for \$1.00 or less. 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 available at the registration desk.

Financial Obligations

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

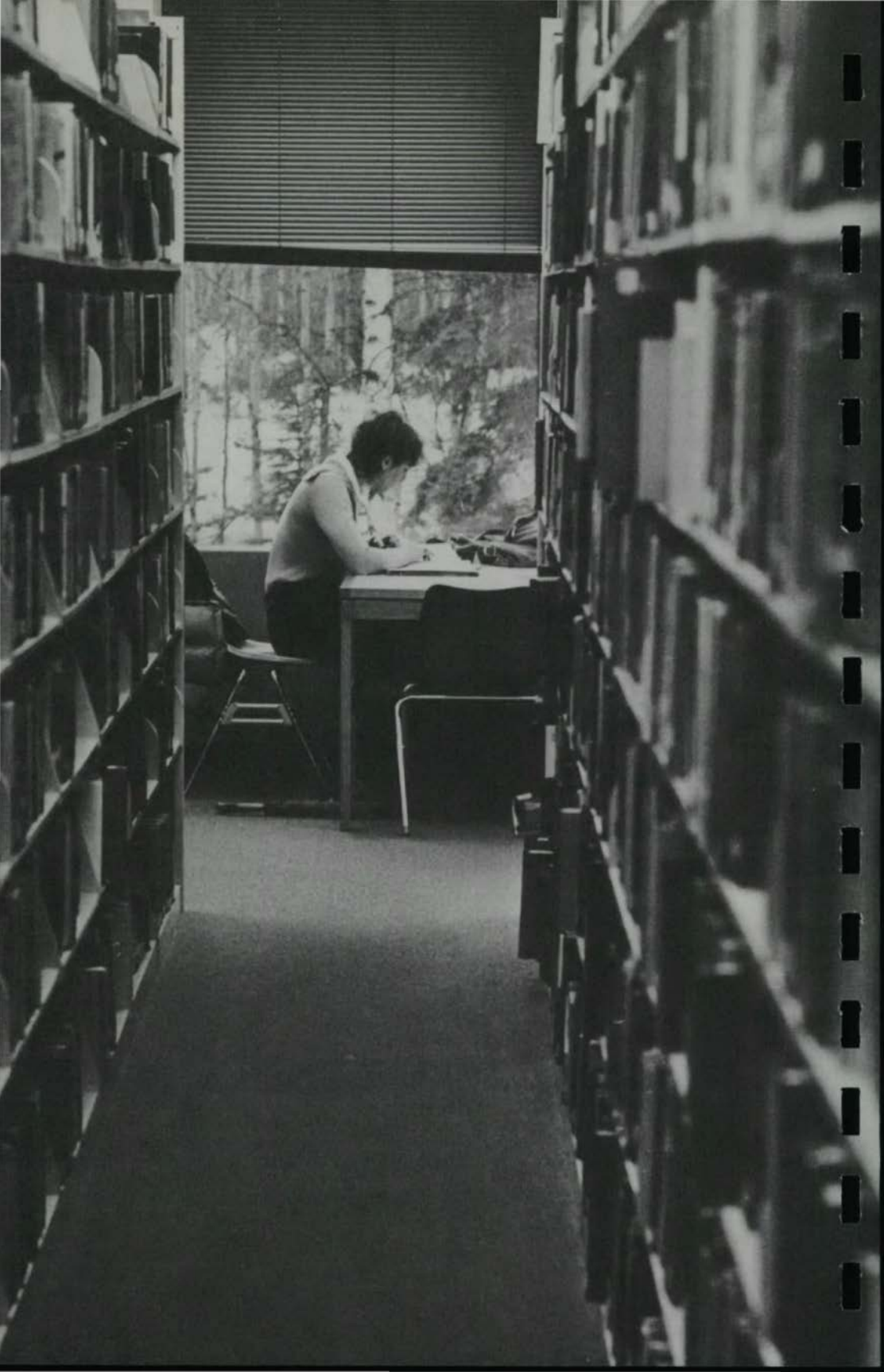
Withdrawals and Cancellations of Enrollment

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

Refund Policy

- 1) Complete refund of both tuition and fees will be given when a withdrawal is made prior to the third day of instruction for the semester or in the event courses registered for are cancelled by the University.
- 2) Ninety percent refund of tuition only will be given for withdrawals made on the third day of the semester and prior to the tenth day of the semester.
- 3) Fifty percent refund of tuition only will be given for withdrawals made on the tenth day of the semester and prior to the seventeenth day of the semester.
- 4) No refund will be given for withdrawals made on or after the seventeenth day of the semester.
- *5) Claim for a refund is processed automatically by the Accounting Office once the appropriate paperwork is completed by the student at the Office of Admissions and Records. The certified date of withdrawal, as indicated on the official withdrawal receipt, will determine the student's eligibility for a refund. Applications for refund may be refused unless they are made during the semester or term to which they apply.
- 6) Students withdrawing as a result of disciplinary action forfeit all rights to a refund of any portion of their tuition and fees.
- 7) Campus activity, laboratory, materials and miscellaneous fees are not subject to refund.
- 8) Personal hardship is not construed by the University as adequate justification for a refund not otherwise provided for in refund policies.
- 9) No refunds will be given for \$1.00 or less.

*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 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 by the College of Arts and Sciences.

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 Admissions and Standard Committee.

ACADEMIC GOOD STANDING

A full-time or part-time 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. Individual departments may establish additional criteria for good academic standing for students seeking degrees in these departments. First-semester students are presumed to be in good academic standing during the first semester unless the student has been admitted on probationary status.

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 or its equivalent will be classified as full-time.

SATISFACTORY PROGRESS FOR FULL-TIME STUDENTS

Undergraduates:

- 1) a student must be enrolled in 12 or more semester credits at UAA.
- 2) a student must successfully complete a minimum of 12 semester credit hours at UAA each semester of enrollment.

Graduates

- 1) a student must be enrolled in 9 or more semester credits at UAA.
- 2) a student must successfully complete a minimum of 9 semester credit hours at UAA each semester of enrollment.

ACCESS TO RECORDS

Under the Family Educational Rights and Privacy Act of 1974, students are entitled to review their records. Except for directory information, no personally identifiable information will be disclosed to agencies off-campus without the written permission of the student. Records are made available for legitimate on-campus professional use on a need-to know basis.

Public information or directory information is disclosed on a routine basis unless the student requests, in writing, to the Director of Admissions and Records that such information not be released. Students are given the option to release the information every semester at registration. No directory information will be released during the first five working days of each semester. After that time, such information will be available for release unless requested not to do so. The following is considered directory information.

1. Name
2. Address, telephone
3. Home address (permanent)
4. Date of birth
5. Dates of attendance and current class standing
6. Major field (s) of study
7. Degrees and awards received, including dates
8. Participation in officially recognized activities.

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

A course may be offered for pass/no-pass grade or for letter grade. This determination is made at the time the course is approved, and 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 semester. The pass/no-pass option is not at the discretion of the student.

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.

INDEPENDENT/DIRECTED STUDY

Three options for individual study are available:

- A. Independent Study
- B. Specified Directed Study
- C. Unspecified Directed Study

Definitions:

- A. **Independent Study** courses are those courses in which the course content, learning activities and evaluative criteria are developed primarily by the student with input from the instructor and final approval by the instructor and the Dean of the College or School. Independent research is included as independent study. Independent Study courses shall bear a course number ending in "97" and shall be offered at the 300, 400, and 600 levels only.
- B. **Specified Directed Study** courses are courses identical with regard to title, course objectives, course content and evaluative criteria to courses regularly offered by the School, College, or Department, but that are not offered during the current semester. Such courses shall bear the regular title and number of the course for which they are intended to substitute in the student's program of study followed by the designation of "Directed Study."
Specified Directed Study courses shall bear the number and title entered in the catalog. They shall be identified by the phrase "Directed Study" to be entered after the regular title.
- C. **Unspecified Directed Study** courses are those courses in which the objectives, content, learning activities and evaluative criteria are developed jointly by the student and the instructor with final approval by the instructor and the Dean.
Unspecified Directed Study courses shall bear a course number ending in "96" and shall be offered at a level that reflects the prerequisite knowledge and courses.

Limits:

- A. No more than 12 credits earned in independent study, specified directed study and unspecified directed study courses may be applied to an undergraduate or graduate degree.
- B. No more than 4 credits each semester of independent study, specified directed study or unspecified directed study may be taken during Fall and Spring semesters. No more than 6 credits may be taken during the Summer semester.
- C. No specified directed study courses can be taken by on-campus students during the semester in which the course, for which the specified directed study is intended to substitute, is offered. Students are strongly encouraged to take required courses when they are scheduled to be offered via traditional methods of instruction.
- D. Course credit for independent study and unspecified directed study courses is based on the amount of work required for achievement of course objectives. This should be similar to the work required by the instructor in traditional courses.
- E. Registration for independent study and specified/unspecified directed study shall conform to the rules and calendar governing enrollment in regularly scheduled courses. THAT IS, STUDENTS AND INSTRUCTORS WILL BE REQUIRED TO ADHERE TO THE ADMISSIONS RULES, LATE REGISTRATION RULES, THE ADD/DROP DEADLINE, AND THE WITHDRAWAL DEADLINE IN FORCE FOR EACH SEMESTER.

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.

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.

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 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 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.

PROBATION AND DISMISSAL

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

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

Academic Dismissal may result if a student 1) begins a semester on probationary admission or academic probation and earns a semester grade-point average below 2.0; or 2) begins a semester on continuing probation and, regardless of semester grade-point average, fails to raise his cumulative grade average to at least 2.0 at the end of the semester.

A faculty committee on scholastic review administers the regulations governing academic dismissal. This committee may disqualify an undergraduate student from enrolling at UAA when it appears that the work is of such character that the student is not maintaining substantial progress toward meeting graduation requirements. Any semester or cumulative record which is considered unsatisfactory will bring the student's record under review by the committee. Students who fail to pass a major portion of the work attempted will be reviewed for dismissal by the committee.

The student who is dismissed will not be eligible to re-enroll for a minimum of 6 calendar months. After which time, he must re-apply for admission.

PROBATIONARY ADMISSION

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

PROBATION AND STUDENT ACTIVITIES

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



GENERAL UNIVERSITY DEGREE REQUIREMENTS

BACCALAUREATE

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 was 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 72 total credits required for a baccalaureate degree may be transferred from a junior or community college.

RESIDENCE REQUIREMENT

Students who receive a baccalaureate degree from the University of Alaska, Anchorage are required to fulfill 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 residence requirement.

In addition to the foregoing requirement, the University of Alaska, Anchorage requires that all baccalaureate students must earn in residence at UAA 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 BACCALAUREATE 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.

44 General University Degree Requirements

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 or 213 or 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	Journalism & Public Communications
Foreign Language	Music	Speech
History		Theater

Social Sciences

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

Anthropology	Justice	Psychology
Business Administration	Political Science	Social Work
Economics		Sociology

Mathematics and Logic

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

Applied Statistics	Mathematics	Philosophy
Computer Science		

Natural Sciences

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

Biology	Chemistry	Physics
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MAJOR REQUIREMENTS:

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

MINOR REQUIREMENTS:

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

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

Electives to total..... 130 credits

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

Bachelor of Business Administration

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

Bachelor of Education

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

Bachelor of Fine Arts

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

Bachelor of Music

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

Bachelor of Science

DEGREE REQUIREMENTS:

Communication

Credits

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

DISTRIBUTION REQUIREMENTS:

Mathematics

Math 200, or AS 300, or AS 307	3
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Natural Science

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

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
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Humanities (see page)	Social Science
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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
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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, or 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
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Areas:

Social Sciences

Humanities

Natural Sciences

Mathematical Sciences (Math 105
and CS 105)

4. Major complex (must be beyond the Associate degree major):
 - a. Upper division credits in technical specialty 0-12
 - b. Complementary area in Business 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.

PROCEDURE FOR ESTABLISHMENT OF INTERDISCIPLINARY DEGREE PROGRAMS

Upon completion of 15 credits at UAA and at least 60 credits prior to graduation, a student may develop 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 and must not be a substitute for a regular program, the requirements for which the student is unable to meet. All University requirements for the appropriate degree must be met. The proposal must nominate a Program Director and two or more faculty members to serve as an advisory committee. The Program Director shall be the Chairman.

To receive a degree in Interdisciplinary Studies from the University of Alaska, Anchorage a student must satisfy General Requirements and Degree and Program Requirements. The program plan for a degree is determined by the individual student in consultation with his or her graduate committee.

In the case of interdisciplinary degree involving more than one school or college, the committee must include a faculty member from each discipline.

The degree title and program content will be chosen by the student with the consent of the advisory committee. Changes within the approved curriculum may be made only with the approval of the advisory committee. The curriculum will not be transferable to other campuses.

The final proposal shall be presented for approval to the relevant academic Dean. In the case of interdisciplinary degrees involving more than one school or college, it shall be presented for approval to each relevant academic Dean.

PROCEDURE:

1. The student develops a proposal, organizes an advisory committee of three faculty members from the relevant academic disciplines, secures agreement of one of them to serve as Chairman and Program Director, and presents the proposal for committee approval.
2. If the committee supports the proposal, it is forwarded to the relevant academic Dean or Deans. If the proposal, Director and committee are approved by the Dean or Deans, a letter of notification is issued to the student with copies to committee members and the Director of Admissions & Records.
3. The letter of notification includes the decision regarding the proposal, the name of the committee Chair-Program Director and members of the committee.
4. A copy of an approved proposal is then forwarded to the Office of Admissions & Records for establishment of a student file.
5. The student works with the advisory committee and the Director of Admissions & Records until they certify that all requirements for the interdisciplinary degree are met.

GRADUATE

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

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

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

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 Interdisciplinary proposal is presented to each relevant dean for approval. (See Interdisciplinary Studies).

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, Anchorage 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 course taken at the 500 level will not apply toward a master's degree program.

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 & 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 June following the spring semester. **All students must be registered at the University of Alaska, Anchorage in the semester they plan to graduate.**

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

Request for Degree Check

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

Application for Diploma

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

Certification for Graduation

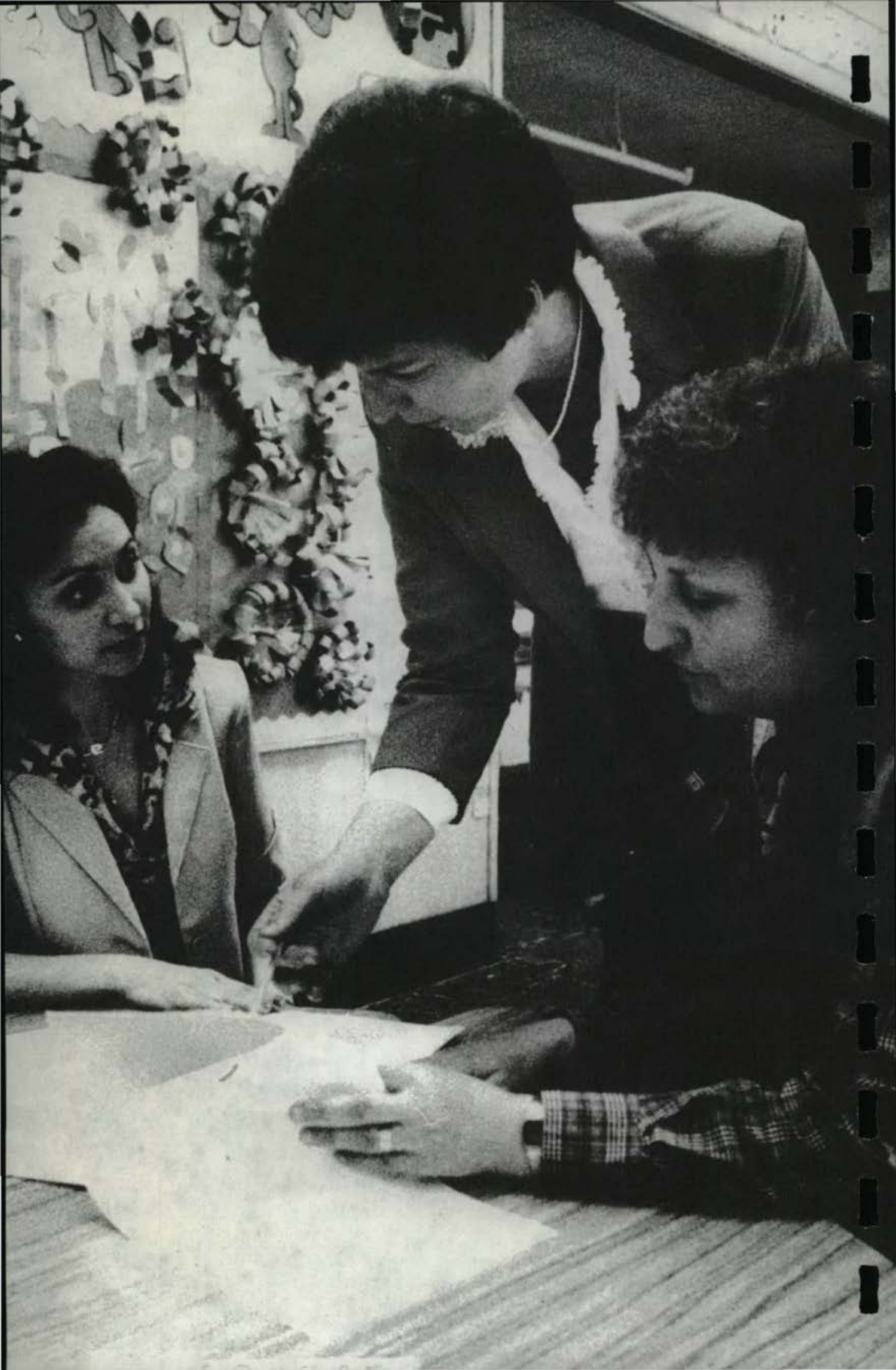
Upon receipt of the Application for Diploma, the Graduation Certification Officer compares the Degree Check verification with the credits earned and, if all requirements have been met, the degree is certified.

Graduation With Honors

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







THE COLLEGE OF ARTS AND SCIENCES

Faculty

Phillip D. Thomas, *Dean*

Department of Anthropology

Professors: Kerry D. Feldman, Marvin D. Loffin, William B. Workman (*Chairman*)

Assistant Professor: Steve J. Langdon

Department of Art

Professor: Saradell A. Frederick

Associate Professor: Josephine H. Cooke

Assistant Professors: Ken Gray, Sam Kimura, (*Chairman*)

Department of Biological Sciences

Professor: Stephen A. Norrell

Associate Professors: Richard W. Kullberg, (*Chairman*), Kristine E. Mann

Assistant Professors: Jerry D. Kudenov, Bjartmar Sveinbjornsson

Department of Chemistry

Associate Professor: John Harrington, (*Chairman*)

Assistant Professors: Daryl Douthat, John French, John Kennish

Department of English

Professor: James R. Wilson

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

Assistant Professors: Charles Beirnard, Ronald Spatz

Department of Foreign Language

Assistant Professor: Arsenio Rey

Department of History

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

Department of Journalism And Public Communications

Associate Professor: Sylvia Broady, (*Chairperson*)

Assistant Professor: Sam Kimura

Distinguished Professor: Atwood Chair of Journalism (*Annual Appointment*): Mort Stern

Department of Mathematical Sciences

(including the disciplines of Applied Statistics and Computer Science)

Associate Professors: Fred Cromer, Arthur Bukowski, Brian D. Wick (*Chairman*)

Assistant Professor: Leonard Smiley

Department of Music

Professor: Jean-Paul Billaud (*Chairman*)

Assistant Professors: George R. Belden, William T. Whitener

Department of Philosophy

Assistant Professor: James J. Liszka

Department of Political Science

Associate Professors: Diddy R. Hitchins (*Chairperson*), Steve Johnson

Department of Psychology

Professors: Richard L. Bruce, Marie C. Doyle, Robert J. Madigan (*Chairman*), Bernard Segal

Associate Professors: Roberta H. Morgan, Harry H. Post, Jr. Assistant Professors: Peter Dowrick, Bruno Kappes, Diane Suskind

Department of Social Work

Associate Professors: Mary Carroll, Cecilia Kleinkauf (*Chairperson*)

Assistant Professor: Myrna I. Wagoner

Department of Sociology

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

Department of Theater and Speech

Associate Professors: Lois Aden, Leroy Clark, Michael J. Hood (*Chairman*)

Assistant Professor: Frank Bebey

Degrees

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

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

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

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

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

The **Baccalaureate Minor** is offered in anthropology, art, biological sciences, chemistry, English, history, Journalism and public communications, mathematics, music, political science, psychology, 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 biological sciences, 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 work on their degrees 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.

Applications for Admission to graduate study will be accepted on a continuous basis in the Department of English, Biological Science and Interdisciplinary Studies.

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

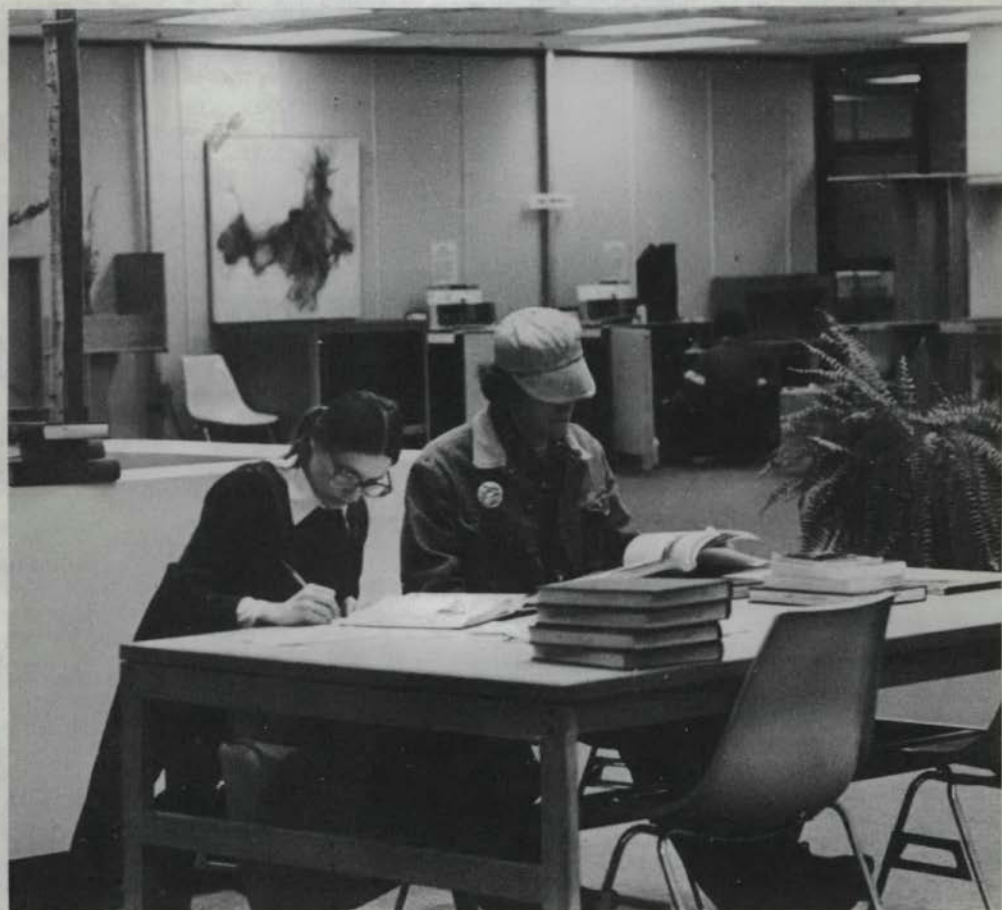
The BA and BS Degree Requirements

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. 45-49; 54-55.
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 420 — Economic Anthropology.....	3
Anth 423 — Social Structure.....	3
Anth 440 — Structures of Alaska Native Languages.....	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 210 — Anthropological Linguistics.....	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**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)

3 Credits**Anth 210****INTRODUCTION TO ANTHROPOLOGICAL LINGUISTICS (3+0)**

Introduction to concepts in anthropological linguistics. This course examines approaches to representing structures of the languages of the world and such topics as folk taxonomies, typologies, kinship, communicative interaction, and language change and variation, all in relation to cultures and societies. (BA-S)

3 Credits**Anth 211****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)

3 Credits**Anth 260****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)

3 Credits**Anth 312****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)

3 Credits**Anth 316****ARCTIC ARCHAEOLOGY (3+0)**

Origins and later phases of prehistoric Eskimo and Indian cultures. Anth 211 recommended as prerequisite. (BA-S)

3 Credits**Anth 324/Soc 324****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)

3 Credits**Anth 326****ARCTIC ETHNOLOGY (3+0)**

Ethnic groups and cultures of the circumpolar area. (BA-S)

3 Credits**Anth 333****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. (BA-S)

3 Credits**Anth 335****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)

3 Credits**Anth 340****URBAN ANTHROPOLOGY (3+0)**

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)

3 credits**Anth 351****CULTURE DYNAMICS (3+0)**

Processes of cultural change with selected case studies, including cultural evolution, diffusion, acculturation, innovation, revitalization

3 Credits

movements, modernization and planned change. Anth 202 recommended as prerequisite. (BA-S)

Anth 354**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)

3 Credits**Anth 361****LANGUAGE AND CULTURE (3+0)**

Study of the relationship between language and culture with coverage of such topics as language variation, meaning in culture, taxonomies, and phonemic principles. (BA-S)

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

Descriptive and comparative study of religious phenomena in traditional societies including myth, ritual, magic, witchcraft, shamanism. Anth 202 recommended as prerequisite. (BA-S)

3 Credits**Anth 400****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)

3 Credits**Anth 403****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)

3 Credits**Anth 410****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)

3 credits**Anth 420****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)

3 Credits**Anth 423****SOCIAL STRUCTURE (3+0)**

Kinship, marriage, the family and patterns of social organization considered cross-culturally. Anth 202 recommended as prerequisite. (BA-S)

3 Credits**Anth 427****CONTEMPORARY ALASKAN ISSUES (3+0)**

Analysis of contemporary issues among Alaskan populations and approaches taken in resolving them. (BA-S)

3 Credits**Anth 430****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. (BA-S)

3 Credits**Anth 431****FIELD METHODS IN ARCHAEOLOGY (1+9)**

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

4 Credits

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. (BA-S)

Anth 440 3 Credits
STRUCTURES OF AN ALASKAN NATIVE LANGUAGE: (3+0)

Survey of the grammar of a native Alaskan language, to include phonology, syntax, and semantics. As feasible, work with a native speaker on selected grammatical problems. Language studies will vary each semester.

Anth 456/Just 456 3 Credits
ANTHROPOLOGY AND THE LAW (3+0)

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 461 3 Credits
PHONETICS AND PHONOLOGY (3+0)

Study of the sounds and specific organizing principles underlying the phonetics and phonemics of human languages in both articulatory and distinctive feature frameworks. Consent of instructor. (BA-S)

Anth 480 3 Credits
ANALYTICAL TECHNIQUES IN ARCHAEOLOGY (1+6)

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)

Applied Statistics

AS 300 3 Credits
ELEMENTARY STATISTICS (3+0)

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 308 3 Credits
INTERMEDIATE STATISTICS (3+0)

Introduction to statistical experimentation and research methods. Contingency tables and Chi Square tests of association and independence. Introduction to Analysis of Variance (ANOVA); one-way and two-way factorial designs. Multiple regression and correlation. Introduction to non-parametric methods including sign test, runs test, Mann-Whitney U-test, etc. SPSS will be used as a tool to aid calculations required for many of the techniques. Each student will be expected to complete a research project as part of the course requirement. Prerequisite: AS 300 or AS 307 or equivalent. (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 3 Credits
SCIENTIFIC SAMPLING (3+0)

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

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. 45-49; 54-55.
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 — Beginning Sculpture	3
Art 213 — Beginning Oil Painting	3

One Elective (Art) chosen from:

Art 201 or 202 — Beginning Ceramics	3
Art 207 — Beginning Printmaking	3
Art 209 — Beginning Metalsmithing	3
Art 224 — Intro Photography	3

Upper-Division (300 level and above)

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

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

12

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

- 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 dean 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 an application for admission with the office of admissions and records 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

Engl 111, 311, (or 211 or 213)	6
Spch 111,	3
 - Breadth Requirement

Five 3 credit courses taken outside the Humanities Division 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. 27
 - Upper-division art history 6
 - Upper-division major concentration 21
 - Upper-division minor concentration 9
 - Art electives 6
 - Thesis project 3
 - Minor in a discipline outside art

18 credits (6 upper division) 18
 - Electives to total 130
- At least 48 credits must be at the 300 level or higher.

Courses in Art

Art 105	3 Credits
Art 106	3 Credits

BEGINNING DRAWING (2+3)

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

Art 160	3 Credits
ART APPRECIATION (3+0)	

This is a course designed for the non-art major rather than the serious art student. It should stimulate thought and develop an appreciation of all the visual arts. Rather than chronological study, emphasis is on how art is useful in everyday life, how it speaks, and what it means. No prerequisites. (BA-H)

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Art 161 3 Credits

TWO-DIMENSIONAL DESIGN (2+3)

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

Art 162 3 Credits

COLOR AND DESIGN (2+3)

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

Art 163 3 Credits

THREE-DIMENSIONAL DESIGN (2+3)

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

Art 201 3 Credits

Art 202 3 Credits

BEGINNING CERAMICS (2+3)

Introduction to the making and firing of clay objects. Study of clay methods of forming decorations, glazing, and firing.

Art 205 3 Credits

INTERMEDIATE DRAWING (2+3)

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

Art 207 3 Credits

BEGINNING PRINTMAKING (2+3)

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

Art 209 3 Credits

BEGINNING METALSMITHING (2+3)

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

Art 211 3 Credits

BEGINNING SCULPTURE (2+3)

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

BEGINNING PAINTING (2+3)

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

Art 224/JPC 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.

Art 261 3 Credits

Art 262 3 Credits

HISTORY OF WORLD ART (3+0)

Origins of art and its development from the beginning through

Art 300/JPC 300 3 Credits

PHOTOJOURNALISM (2+3)

Ways and techniques behind creating effective photos and photo essays for newspapers, magazines and television. Learning to recognize, develop and create photo stories; how to coordinate words and photos and to lay them out on a page. Exploration of photo editing techniques. Presentation procedure for finished material to potential markets. Prerequisite: JPC 203/ART 224.

Art 301 3 Credits

INTERMEDIATE CERAMICS (2+3)

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 305 3 Credits

ADVANCED DRAWING (2+3)

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 (2+3)

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 (2+3)

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 (2+3)

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 (2+3)

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

Art 318/Ed 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, 313 and 332.

Art 319 3 Credits

LIFE DRAWING AND ANATOMY (2+3)

Continued studies of the human figure in various media and interpretations. Emphasis on composition and the human anatomy. Prerequisite: Permission of instructor. May be repeated for credit.

Art 321/JPC 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 324/JPC 303.

Art 322/JPC 322 3 Credits

EXPERIMENTAL PHOTOGRAPHY (2+3)

Exploration of various special effects, techniques; free experimentation with the photographic image; emphasis on creativity. Prerequisite: Art 324/JPC 303 or permission of instructor.

Art 323/JPC 323 3 Credits

COLOR PHOTOGRAPHY (2+3)

Advanced techniques in color transparencies and color printing; creative use of color. Prerequisite: Art 224/JPC 203.

Art 324/JPC 303 3 Credits

INTERMEDIATE PHOTOGRAPHY (2+3)

Further development of skills learned in Introductory Photography. Photographic perception or awareness, ideas and concepts, the "fine

print" are areas that will be stressed. Assignments with deadlines will be given to develop discipline. Special darkroom techniques will be introduced as a tool for further investigation. Prerequisite: Art 224/JPC 203 or instructor approval.

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 prehistoric 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/JPC 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 (3+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 art, how the artists sees his work, difference between commercial and fine art, and photography as an art. (BA-H)

Art 401 3 Credits

ADVANCED CERAMICS (2+3)

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 407 3 credits

ADVANCED PRINTEMAKING (2+3)

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 (2+3)

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 (2+3)

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 (2+3)

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

Art 424/JPC 403 3 Credits

ADVANCED PHOTOGRAPHY (2+3)

The use of lighting as a tool for creative photography. Specific assignments that incorporate lighting skills will be given. Prerequisite: Art 324/JPC 303 or permission of instructor.

Art 442/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.

Biological Sciences

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

The Biology program has among its objectives the preparation of individuals for various professional careers in health sciences, environmental sciences and, of course, in the biologically-oriented basic sciences. Various courses of study are available to provide a basis for appropriate career development without compromising the study of biology for its own sake. All biology course sequences, therefore, are developed around a rigorous basic science core curriculum.

BACHELOR OF ARTS

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA degree as shown on pp 44-49; 54-55.
2. Complete a curriculum approved by the Chairman of the Biology program, including at least the following requirements:

Credits

Biol. 107-108 or equivalent, Biol 492, 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. 45-49; 54-55.
2. Complete a curriculum approved by the Chairman of

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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, Biol Seminar, and at least 36 additional credits in Biology, at least 18 of which must be upper-division credits and must include one course each in Botany, Ecology, Genetics, Microbiology, Physiology, and Zoology | 40 |
| b. Chem. 105-106, and at least 8 credits in Organic Chemistry, including laboratory | 16 |
| c. In addition to the general university requirements, complete one of the following three alternatives: (1) Math 200; (2) BA/JPC/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

MASTER OF SCIENCE: BIOLOGICAL SCIENCES

A. Degree Requirements:

1. Submission of scores of the Graduate Record Examination and the GRE Specialty Examination in Biology or Chemistry prior to admission to the program.
2. Completion of General University Graduate Degree requirements.
3. Completion of Specific Program Degree requirements, as shown below.
4. Completion of Oral and Written Comprehensive Examinations.

B. Program Degree Requirements:

It should be understood by all students that the requirements specified herein are *minimum* requirements. These requirements, as well as any additional or remedial work that may be required, will be determined by the student's Graduate Studies Committee. Only rarely will a student be able to graduate with a minimum of 30 credit hours.

All students will be subject to written and oral examinations. Such examinations will be of a comprehensive nature, and when appropriate, will include a defense of research or thesis. The Graduate Studies Committee will be responsible for certifying that the student has satisfactorily completed these examinations.

1. MASTER OF SCIENCE — THESIS OPTION

Thesis & Research	not more than 12
600 level credits	not less than 9
Seminar	2
Approved upper division credits	to 30 minimum

Note: Teaching experience, equivalent to two

laboratory sections, will be required for all M.S. graduates.

2. MASTER OF SCIENCE — NON-THESIS OPTION

Research	4-6
600 level credits	not less than 9
Seminar	2
Approved upper division credits	to 30 minimum

Note: Teaching experience, equivalent to two laboratory sections, will be required for all M.S. graduates.

C. Admission Requirements

Admission to graduate study shall require the approval of at least a majority of faculty in the Department or of a Graduate Admissions Committee appointed by the Department Chairperson.

Although graduating college seniors are invited to apply, and are expected to represent the majority of applicants, no student may be admitted to graduate study until the baccalaureate degree has been awarded by an accredited college or university.

Students shall apply through the Office of Admissions & Records, and provide any supporting material requested by the Admissions Committee. Graduate Record Examinations, including Specialty Area Examinations, will be required of all students prior to admission. Additional standards will be established on an individual basis by the Graduate Admissions Committee, and deficiencies in the applicant's undergraduate program, if any, will be removed before the end of the second semester at UAA.

D. Departmental Graduate Studies Committee

Each student will be assigned a Graduate Studies Committee approved by the Department Chairperson, the chairman of which will be the thesis or research advisor. The Committee will be appointed after consultation with the student and with the faculty member who is willing to direct his/her graduate studies will serve as the Committee Chairperson. In those instances where an adjunct faculty member is supervising the research, the committee will be co-chaired by a permanent UAA faculty member. It shall be the committee's responsibility to ensure that the degree requirements are met and that timely and appropriate progress toward the completion of the degree is maintained.

The committee shall consist of at least three faculty members from the concerned Departments.

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. Accepted for Biology major credit only by petition. (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 2 Credits**NORMAL NUTRITION (2+0)**

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

Biol 215 4 Credits**FUNDAMENTALS OF ZOOLOGY (3+3)**

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

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

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

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

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

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

Principles of inheritance in prokaryotes and eukaryotes, and physicochemical 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 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 309 3 Credits**BIOGEOGRAPHY (3+0)**

Ecological basis and historical patterns of the distribution of plants and animals on a world-wide basis. Current theories regarding origins of these distributions are examined. Prerequisites: Biol 107-108, 215 and 239, or permission of instructor. (BA-N)

Biol 327 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 340 5 Credits**GENERAL MICROBIOLOGY (3+6)**

Biology of procaryotic organisms and viruses, their relationships to other organisms and to the ecosystem. Prerequisites: Concurrent registration in Chemistry 322. Usually offered during Fall semesters. (BA-N)

Biol 352 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. Accepted for Biology major degree requirement in Genetics only by petition; may be used as elective credit for upper division Biology. Prerequisite: Biology 252 or permission of instructor. (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. Prerequisites: Biol 252 and Chem 321 and 322 or permission of instructor. (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 361 or permission of instructor. (BA-N)

Biol 378 3 Credits**MARINE BIOLOGY (3+0)**

The marine environment; biology and distribution of marine plants and animals; fisheries, aquaculture and pollution. Prerequisites: Biol 107-108. (BA-N)

Biol 401 30 Credits**MEDICAL TECHNOLOGY**

Twelve-months medical technology internship at an approved hospital school, including work in clinical chemistry, hematology, microbiology, serology, parasitology, and histologic techniques. Prerequisites: Senior standing in the Medical Technology Program and acceptance at an approved school of Medical Technology.

Biol 403 4 Credits**MICROTECHNIQUE (2+6)**

Demonstration and use of tissue techniques including procurement, preservation, embedding, sectioning, staining, microscopy, photography and illustration. Prerequisites: Biol 107-108 plus 12 additional credits in Biology, or permission of instructor. Offered as demand warrants. (BA-N)

Biol 416 4 Credits**PLANT PHYSIOLOGY (3+3)**

A broad survey of plant physiology with emphasis on the whole plant response to environmental conditions. Prerequisite: Biol 239, Chem 105, or graduate standing, or permission of instructor. Generally given during even year fall semester. (BA-N)

Biol 418 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, Biol 107-108, 1 year of physics, or permission of instructor. (BA-N)

Biol 425 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 427 5 Credits
MARINE INTERTIDAL ZOOLOGY (3+4)

Morphology, ecology, behavior, feeding and reproduction of living benthic organisms, with emphasis on local marine species. Includes co-operative student field research projects. Emphasis on application of field techniques to the solution of biological problems. Prerequisites: Biol 271, 378, 425, Chem 212, or permission of instructor. Offered summers. (BA-N)

Biol 439 3 Credits
PLANT ECOLOGY FIELD COURSE (1+6)

The interactions between plants and their environment. Theory and methodology for studying the responses of plants to various environmental conditions. Normally given during the summer. Prerequisites: Biol 239, Chem 105, or graduate standing or permission of instructor. (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 442 4 Credits
QUANTITATIVE TECHNIQUES IN MICROBIOLOGY (1+9)

Quantitative techniques in Bacteriology and Virology. Cell and plaque counting, quantitative measurement of microbial activity and bioassay. Advanced techniques in microscopy. Prerequisites: Biol 340, or graduate standing, or permission of instructor.

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 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 475 4 Credits
ARCTIC ECOSYSTEMS (3+3)

Analysis of energy flow and nutrient cycling in Arctic ecosystems. Prerequisites: Biol 215, 239, 271, Chem 106, or graduate standing, or permission of instructor.

Biol 479 4 Credits
PLANTS AND THEIR ENVIRONMENT (3+3)

Morphological, anatomical, and physiological adaptations of plants to environmental conditions characteristically encountered in the various biomes on earth. Usually offered on alternate fall semesters.

Biol 487 4 Credits
COMPARATIVE ANATOMY OF VERTEBRATES (2+6)

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

Biol 488 4 Credits
VERTEBRATE DEVELOPMENTAL ANATOMY (2+6)

Analysis of vertebrate morphogenesis and introduction to the causal factors of development. Prerequisite: Biol 487. Offered alternate Fall semesters. (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 602 2 Credits
SYSTEMATIC BIOLOGY (2+0)

Classification, systematic, and taxonomy of organisms. Prerequisites: Biol 308, 425, 487. Offered as demand warrants.

Biol 618 3 Credits
ADVANCED NEUROBIOLOGY (3+0)

Study of nervous system function at the cellular level with emphasis on quantitative description of electrical behavior of nerve membrane. Lectures concurrent with Biol 418. In addition to meeting the requirements of that course, students will study theory of electro-physiology instrumentation and will prepare a research paper detailing a current topic in excitable membrane function, including a review of recent literature and proposal for further experiments. Not available for credit to students who have completed Biol 418.

Biol 625 4 Credits
ADVANCED INVERTEBRATE ZOOLOGY I (2+6)

Functional morphology, evolutionary adaptations and phylogeny of the invertebrates with an emphasis on feeding, respiration, circulation, excretion and digestion. Prerequisites: Biol 425 or permission of instructor.

Biol 626 4 Credits
ADVANCED INVERTEBRATE ZOOLOGY II (2+6)

Functional morphology, evolutionary adaptations and phylogeny of the invertebrates with an emphasis on skeletal systems, locomotion, nervous systems and reproduction. Prerequisites: Biol 425, or Biol 625 or permission of instructor.

Biol 641 3 Credits
MICROBIAL PHYSIOLOGY (3+0)

The principal types of autotrophic and heterotrophic microbial metabolism. Photosynthesis, nitrogen fixation, metabolism of iron and sulfur bacteria. Fermentation, respiration, biosynthetic pathways. Prerequisites: Biol 442, or 642, or Chem 444, or permission of instructor.

Biol 642 4 Credits
ADVANCED QUANTITATIVE TECHNIQUES IN MICROBIOLOGY (1+9)

Lecture and laboratories concurrent with Biol 442. In addition to meeting all requirements for Biol 442, graduate students will be required to develop an experimental protocol using the techniques learned and to present seminars on the theoretical basis of those techniques. Not available for credit to students who complete Biol 442.

Biol 661 3 Credits
ADVANCED MOLECULAR BIOLOGY (3+0)

Lectures concurrent with Biology 461 (Molecular Biology). In addition to meeting all requirements for Biol 461, graduate students will be required to research the literature on a current topic in molecular biology, to submit an extensive paper summarizing their findings including designs for future experiments on the subject, and to give a seminar on the same topic. Not available for credit to students who complete Biol 461.

Biol 663 **3 Credits**
MOLECULAR BIOLOGY OF CANCER (3+0)

A study of the molecular biology of Cancer, with emphasis on the mechanisms by which a normal cell becomes a malignant cell, including the role of both chemicals and viruses in carcinogenesis. The orientation of the course will be towards a study of the current literature, by means of research, term papers, discussions and seminars. Prerequisites: Biol 361 and 461, or permission of instructor.

Biol 678 **4 Credits**
ADVANCED MARINE BIOLOGY (2+6)

Distribution, locomotion, feeding, reproduction and physiology of marine organisms with an emphasis on local marine invertebrate species. Prerequisites: Biol 378, 425, or permission of instructor.

Biol 679 **2 Credits**
CURRENT TOPICS IN MARINE BIOLOGY (2+0)

Current topics in Marine Biology to be presented by graduate students or faculty, may be repeated for credit.

Broadcasting

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

Chemistry

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

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

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

Bachelor of Science

1. Complete the General, Degree, and College of Arts and Sciences requirements as shown on pp. 45-49; 54-55.
2. Complete the following major specialty requirements:

Credits

The College of Arts and Sciences 63

Chem 105-106 General Chemistry	8
Chem 212 Quantitative Analysis	5
Chem 321-322 Organic Chemistry	8
Chem 331-332 Physical Chemistry	6
Chem 334 Physical Chemistry Laboratory	3
Chem 434 Instrumental Methods	4
Chem 441-442 Biochemistry	6
Chem 444 Biochemistry Laboratory	3
Chem Seminar	2
Chem Individual Research	3
	48 credits
Math 200-201-202 Calculus	12
Physics 211-212 General Physics	8
Biol 107-108 Fundamentals of Biology	4
	72 credits

RECOMMENDED FOUR-YEAR PROGRAM

FIRST YEAR

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

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	5
Phys 211 General Physics	4
Math 201 Calculus II	4
or	
Math 202 Calculus III	4
Spch 111 Fund. of Oral Comm.	3
	16

Spring Semester

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

THIRD YEAR

Fall Semester	Credits
Chem 321 Organic Chemistry	4
Chem 331 Physical Chemistry	3
Electives	9
	16

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Spring Semester

Chem 322 Organic Chemistry	4
Chem 332 Physical Chemistry	3
Chem 334 Physical Chem Lab	3
Electives	6
	16

FOURTH YEAR

Fall Semester

Chem 441 Principles of Biochemistry	3
Chem 444 Biochemistry Lab	3
Chem Seminar	1
Electives	9
	16

Spring Semester

Chem 434 Instrumental Methods	4
Chem 442 Principles of Biochemistry	3
Chem Seminar	1
Electives	9
	17

BIOCHEMISTRY OPTION:

1. Complete the General, Degree, and College of Arts and Sciences requirements as shown on pp. 45-49; 54-55.
2. Complete the following major specialty requirements:

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

MINOR

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

Courses in Chemistry

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	5 Credits
QUANTITATIVE ANALYSIS (3+6)	

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

Chem 321	4 Credits
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Chem 322	4 Credits
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ORGANIC CHEMISTRY (3+4) (3+4)

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

Chem 331	3 Credits
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Chem 332	3 Credits
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PHYSICAL CHEMISTRY (3+0) (3+0)

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

Chem 334	3 Credits
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PHYSICAL CHEMISTRY LABORATORY (1+6)

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

Chem 402	3 Credits
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ADVANCED INORGANIC CHEMISTRY (3+0)

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

Chem 421	3 Credits
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ADVANCED ORGANIC CHEMISTRY (3+0)

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

Chem 431	3 Credits
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ADVANCED PHYSICAL CHEMISTRY (3+0)

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

Chem 434	4 Credits
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Instrumental Methods (2+6)

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

Chem 441 3 Credits**Chem 442** 3 Credits**PRINCIPLES OF BIOCHEMISTRY (3+0) (3+0)**

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

Chem 444 3 Credits**BIOCHEMISTRY LABORATORY (1+6)**

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

Chem 450 3 Credits

ENVIRONMENTAL CHEMISTRY (3+0) The origin and evolution of the environment, energy, mineral resources solid wastes, recycling, and the effects of foreign substances on living systems. Air and water pollution. Quantitative chemical principles will be applied. The interrelationships among these problems will be demonstrated. The course is an introduction to Environmental Chemistry for all science majors. PREREQUISITE: Junior or Senior standing in Biology, Chemistry, or Engineering. (BA-N)

Chem 461 3 Credits**Chem 462** 3 Credits**BIOPHYSICAL CHEMISTRY (3+0) (3+0)**

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

Chem 471 3 Credits**IMMUNOCHEMISTRY (3+0)**

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

Chem 641 2 Credits**METABOLISM AND FATE OF ANTHROPOGENIC COMPOUNDS (2+0)**

An advanced topics course in biochemistry; oxidative and reductive metabolism of a variety of anthropogenic compounds, the roles of hydration and conjugation reactions, pharmacokinetics and chemical carcinogenesis will be covered in this course. Roles of enzyme and membrane structure in determining the fate of compounds will also be considered. Prerequisite: Permission of instructor.

Computer Science

CS 105 3 Credits**FORTRAN PROGRAMMING (3+0)**

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

CS 106 3 Credits**BASIC PROGRAMMING (3+0)**

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

Economics

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

English

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

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

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

BACHELOR OF ARTS

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA degree as shown on Pages 45-49; 54-55.
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 of INTRODUCTION:

Engl 201, 202 — Masterpieces of World Literature

6 credits from the following PERIOD courses:

Engl 310 — Ancient Literature
 Engl 315 — Medieval Literature
 Engl 320 — Renaissance Literature
 Engl 325 — Neoclassical Literature
 Engl 330 — Literature of Romanticism
 Engl 340 — Modern Literature: 1850-1890
 Engl 341 — Modern Literature: 1890-1920
 Engl 342 — Modern Literature: 1920-1950
 Engl 343 — Modern Literature: 1950-Present

6 credits from the following GENRE courses:

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

3 credits from the following COMPOSITION courses:

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

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3 credits from the following MAJOR AUTHOR courses:

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

3 credits of THEORY:

- Engl 435 — History of Criticism

3 credits from the following LANGUAGE courses:

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

6 credits from the following courses, if the English major wants state certification to teach English

- Engl 485 — Methods of Teaching English for the High School (required)
- Engl 486 — Adolescent Literature
- or
- Engl 487 — Standard Written English

- 2. Composition courses: Engl 652, 662, Studies in Writing Poetry, Fiction. (No more than six credits in any course.) 12
- 3. Approved English electives 12
- 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

MINOR IN ENGLISH

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

- 6 credits of 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:

- Submission of scores of the Graduate Record Examination and the GRE Specialty Examination in English prior to candidacy.
- 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.)
- Completion of the general graduate degree requirements. A minimum of 9 credits must be at the 600 level.
- Reading knowledge of a foreign language.

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

- Scores of Graduate Record Examination and GRE Specialty Examination in English prior to candidacy.

Courses in English

Engl 090

3 Credits

BASIC WRITING (3+0)

Instruction in the fundamentals and conventions of Standard Written English through intensive practice in sentence formation, paragraph development, and short-essay writing. A grade of P in this course is a prerequisite for enrollment in English 111 for those writing students who have scored 34 and below on the SAT Test of Standard Written English or 13 and below on the ACT English Usage Test. This course may not be applied toward satisfaction of any baccalaureate degree requirements.

Engl 111

3 Credits

METHODS OF WRITTEN COMMUNICATION (3+0)

Instruction in writing expository prose, including principles of order and clarity. Close analysis of appropriate texts. Library paper required. Prerequisite: a score of 35 or above on the SAT Test of Standard Written English; 14 or above on the ACT English Usage Test; or a grade of P in English 090: Basic Writing.

Engl 121

3 Credits

THE STUDY OF LITERATURE (3+0)

An introductory course for non-majors. Material includes selections from poetry, drama, and prose fiction. Focus is on literature as an art which expresses and gives form to human experience. Prerequisite: Engl 111. (BA-H)

Engl 201

3 Credit

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 judgement. Selected masterpieces from ancient times through the Renaissance (I) and from the Renaissance to the present (II). Prerequisite: Engl 111. (BA-H)

Engl 211*

3 Credits

INTERMEDIATE EXPOSITION WITH MODES OF LITERATURE (3+0)

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

Engl 213*

3 Credits

INTERMEDIATE EXPOSITION (3+0)

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 permission of the instructor. (BA-H)

Engl 311 3 Credits
ADVANCED EXPOSITION (3+0)

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, junior 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 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 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 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 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 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 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 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 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 permission of instructor. (BA-H)

Engl 352 3 Credits
THE COMPOSITION OF POETRY (3+0)

Practice in the writing of various poetic structures and close analysis of each student's work. Prerequisites: Engl 201, 202 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 201, 202 or permission of instructor. (BA-H)

Engl 362 3 Credits
THE COMPOSITION OF PROSE FICTION (3+0)

Practice in the writing of various fictional structures and close analysis of each student's work. Prerequisites: Engl 201, 202 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 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 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 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 permission of instructor. (BA-H)

Engl 383 3 Credits
FILM INTERPRETATION (3+0)

An analysis of the unique "language" and elements of the film medium. Historical and contemporary examples of documentary, short subject, and feature film will be studied.

Engl 414 3 Credits
RESEARCH WRITING (3+0)

Technical, specialized exposition, documentation and research. Concentration on language, style and audience in scholarly articles. Papers in students' field prepared for conference. Students should have a definite project in mind before enrolling. Prerequisites: Engl 211, 213, or 311.

Engl 421 3 Credits
CHAUCER (3+0)

Major poetry, with emphasis on "The Canterbury Tales," and survey of Chaucerian criticism. Prerequisites: Engl 201, 202 or permission of instructor. (BA-H)

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Engl 424	3 Credits
SHAKESPEARE (3+0)	
Major works, including significant Shakespearean criticism. Prerequisites: Engl 201, 202 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 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 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 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 permission of instructor.	
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.	
Engl 475	3 Credits
MODERN GRAMMAR (3+0)	
An inductive modern linguistic analysis of English emphasizing transformational grammar. Recommended for students in Education with a teaching-major or minor in English. Prerequisite: Ling 101 or permission of instructor.	
Engl 476	3 Credits
HISTORY OF ENGLISH LANGUAGE (3+0)	
Origins and development of the English language from prehistoric times to the present. Ling 101 is desirable but not required.	
Engl 477	3 Credits
LINGUISTICS AND LITERATURE (3+0)	
An analysis of various forms of literature, using the techniques of modern linguistics. Prerequisites: Ling 101 and Engl 201, 202 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 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 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 (3+0)	
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 685	1 Credit
ANCHORAGE WRITING PROJECT WORKSHOP (1+0)	

A series of one-credit graduate courses focusing on specific aspects of teaching writing. Together with a Summer Institute, these courses constitute the Anchorage Writing Project Teacher Training Program. Enrollment is restricted to Anchorage Writing Project teachers.

French

Fren 101	(5 credits)
Fren 102	(5 credits)
ELEMENTARY FRENCH I AND II (5+0) (5+0)	
Introduction to the French language. Vocabulary and grammar. Practice in understanding, speaking, reading and writing French. Oral practice is emphasized. Prerequisite for 102: Fren 101. (BA-H)	
Fren 344	3 Credits
CONTEMPORARY FRENCH LITERATURE (3+0)	
Study of contemporary French Literature for intermediate level students, concentrating on short works and selections of novels written in the 1960's. Strong emphasis on French culture and society as portrayed in the readings. Prerequisite: Permission of instructor. (BA-H)	

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 view 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 45-49; 54-55.
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:

Hist 476 — Historiography and Historical Method.....	3
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(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.

MINOR IN HISTORY

The history minor requires 18 hours of history credit including Hist 101-102 or Hist 131-132. Nine hours must be taken at the upper-division level.

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, "Roar-

ing Twenties," The Great Depression, Isolationism and World War II, Cold War, modern American society, Vietnam and after. (BA-H)

Hist 302 3 Credits THE FRENCH REVOLUTION AND NAPOLEON (3+0)

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

Hist 305 3 Credits EUROPE: 1815 TO 1870 (3+0)

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

Hist 306 3 Credits EUROPE: 1870-1914 (3+0)

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

Hist 315 3 Credits EUROPE: 1914-1945 (3+0)

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

Hist 316 3 Credits EUROPE SINCE 1945 (3+0)

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

Hist 341 3 Credits HISTORY OF ALASKA (3+0)

Introduction to background of Alaska and its relationship to America and the world, including anthropologic aspects of native groups, land bridge theory, Russian discovery, occupation and management, Orthodoxy, purchase, American organization and development, gold rushes, Congressional definition and federalism, native claims history, statehood, oil and the disposition of Alaska lands. Prerequisite: junior standing. (BA-H)

Hist 345 3 Credits RUSSIA: THE AGE OF REFORM AND REVOLUTION (3+0)

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

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

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

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

The origins of the war in Europe and Asia. The grand strategies of the belligerents, the principal military operations, the relationship between science and war, and the mobilization of societies and economies for total war. Wartime diplomacy and the post war settlements are also

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emphasized. Prerequisites: History 102 or permission of instructor. (BA-H)

Hist 414 MEDIEVAL ENGLAND (3+0) 3 Credits

An examination of English history from the decline of Roman Britain until the end of the Middle Ages. Particular attention will be given to the Anglo-Saxon incursions, the Norman invasion, and the political, cultural, and economic developments of the twelfth-fourteenth centuries. (BA-H)

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

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

Hist 417 THE REFORMATION (3+0) 3 Credits

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

Hist 418 TUDOR AND STUART ENGLAND (3+0) 3 Credits

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 or permission of instructor. (BA-H)

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

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 AMERICAN REVOLUTION (3+0) 3 Credits

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 THE AGE OF JEFFERSON AND JACKSON (3+0) 3 Credits

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 CIVIL WAR AND RECONSTRUCTION (3+0) 3 Credits

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 THE WESTWARD MOVEMENT (3+0) 3 Credits

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 TWENTIETH CENTURY AMERICA (3+0) 3 Credits

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

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

A course 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 SEMINAR IN ALASKAN HISTORY (3+0) 3 Credits

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 STUDIES IN EARLY AMERICAN HISTORY (3+0) 3 Credits

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 STUDIES IN MODERN AMERICAN HISTORY (3+0) 3 Credits

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 STUDIES IN MODERN EUROPE (3+0) 3 Credits

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)

Humanities

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

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 and Public Communications

The programs in journalism and public communications develop skills in communicating to publics and give students practice in relating those skills to what they learn in their other courses in liberal arts and sciences.

The requirement of a minor complex in a subject other than public communications helps to assure the broad educational attainment needed by mass media professionals.

The core program and the various options beyond it are designed to provide students with basic knowledge about gathering information, assessing it, processing it and presenting it. Graduates of the department are poised for rapid professional development and polish upon entering careers in public communications.

The Bachelor of Arts requirements are as follows:

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA degree as shown on pp. 45-49; 54-55.
2. Complete courses for the major specialty.

Core Courses (required of all majors):

JPC 101 — Introduction to Mass Communication	3
JPC 201 — News Writing	3
JPC 203 — Introductory Photography	3
JPC 212 — Editing	3
JPC 215 — History of Mass Communication	3
JPC 326 — Principles of Advertising	3
JPC 413 — Communications Law	3
JPC 432 — Research Methods	4

Total Required

Concentration (a minimum of 12 credits in one of the five options listed below):

Print Journalism — Option I

JPC 300 — Photojournalism	3
JPC 301 — Reporting	3
JPC 303 — Intermediate Photography	3
JPC 311 — Magazine Journalism	3
JPC 324 — Typography and Publication Design	3
JPC 450 — Internship in Print Journalism	3

Public Relations and Advertising — Option II

JPC 303 — Intermediate Photography	3
JPC 320 — Introduction to Public Relations	3
JPC 324 — Typography and Publication Design	3
JPC 328 — Advertising Campaign	3
JPC 330 — Advanced Public Relations	3
JPC 405 — Advertising and Public Relations Photography	3
JPC 451 — Internship in Public Relations and Advertising	3

Telecommunications — Option III

JPC 216 — Television Production	3
JPC 341 — Radio/Television News	3
JPC 350 — The Television Documentary	3
JPC 452 — Internship in Broadcasting	3

Photography — Option IV

JPC 300 — Photojournalism	3
JPC 303 — Intermediate Photography	3
JPC 321 — Photographic Design	3
JPC 322 — Experimental Photography	3
JPC 323 — Color Photography	3
JPC 367 — History of Photography	3
JPC 403 — Advanced Photography	3
JPC 405 — Advertising and Public Relations Photography	3

JPC 453 — Internship in Photography3

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 Journalism and Public Communications

Complete JPC 101, 201 and at least 12 additional credits (6 or more at the upper division level) excluding internships.

Courses In Journalism and Public Communications

JPC 101 3 Credits

INTRODUCTION TO MASS COMMUNICATION (3+0)

A survey of the media of mass communication and their functions in modern society: newspapers, magazines, photography, motion pictures, radio and television, advertising, and public relations. (BA-H)

JPC 201 3 Credits

NEWS WRITING (3+0)

Structure of news stories, various news leads and feature stories; gathering and evaluating information for simple news stories; writing stories. Prerequisite: typing ability.

JPC 203/Art 224 3 Credits

INTRODUCTORY PHOTOGRAPHY (2+3)

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

JPC 212 3 Credits

EDITING (3+0)

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

JPC 215 3 Credits

HISTORY OF MASS COMMUNICATION (3+0)

Development of the print, film, and broadcast communication media from their beginnings to the present, and their roles as institutions in American society. (BA-H)

JPC 216 3 Credits

TELEVISION PRODUCTION (2+4)

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

JPC 300/Art 300 3 Credits

PHOTOJOURNALISM I (2+3)

Ways and techniques behind creating effective photos and photo essays for newspapers, magazines and television. Learning to recognize, develop and create photo stories; how to co-ordinate words and photos and to lay them out on a page. Exploration of photo editing techniques. Presentation procedure for finished material to potential markets. Prerequisite: JPC 203/Art 224.

JPC 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: JPC 201.

JPC 303/Art 324 3 Credits

INTERMEDIATE PHOTOGRAPHY (2+3)

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

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darkroom techniques as a tool for further expression. Prerequisite: JPC 203/Art 224.

JPC 311 3 Credits MAGAZINE JOURNALISM (2+2)

Study and practice in writing articles for publication in national media. Prerequisite: JPC 201.

JPC 320 3 Credits INTRODUCTION TO PUBLIC RELATIONS (3+0)

Function of public relations and its role in society. Principles, history and practice of public relations in business, educational institutions, social welfare organizations, government and military services; process of influencing and public opinion; responsibilities of the public relations practitioner to his principals, media and public.

JPC 321/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: JPC 303/Art 324.

JPC 322/Art 322 3 Credits EXPERIMENTAL PHOTOGRAPHY (2+3)

Exploration of various special effects, techniques; free experimentation with the photographic image; emphasis on creativity. Prerequisite: JPC 303/Art 324, or permission of the instructor.

JPC 323/Art 323 3 Credits COLOR PHOTOGRAPHY (2+3)

Advanced techniques in color transparencies and color printing; creative use of color. Prerequisite: JPC 303/Art 324.

JPC 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.

JPC 326 3 Credits PRINCIPLES OF ADVERTISING (3+0)

Theory and practice of advertising; including strategy, media use, creation and production of advertisements and measurement of advertising effectiveness.

JPC 328 3 Credits ADVERTISING CAMPAIGN (3+0)

Planning and execution of advertising campaign, marketing and consumer research, organization and function of advertising agencies, selection of media, etc. Prerequisite: JPC 326

JPC 330 3 Credits ADVANCED PUBLIC RELATIONS (3+0)

Use of controlled and uncontrolled (public) media to achieve motivation of target audiences; case studies and typical problems; planning and preparation of communication materials; application of public relations and techniques. Prerequisite: JPC 320

JPC 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: JPC 201.

JPC 350 3 Credits THE TELEVISION DOCUMENTARY (2+2)

History of the documentary film, problems inherent to cinema and TV production; advanced camera and sound techniques; editing. Prerequisite: JPC 216.

JPC 367/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.

JPC 401 3 Credits SPECIALIZED WRITING (3+0)

Gathering information and writing extensively about a specialized topic or field of endeavor. Students will cover a geographic or topical beat, writing stories over time in a variety of writing projects about particular kinds of enterprise or products. Prerequisite: JPC 301 Reporting. Signature required.

JPC 403/Art 424 3 Credits ADVANCED PHOTOGRAPHY (2+3)

Individual direction will be stressed. The development of themes, styles, and the craft required to present a cohesive body of work. Studio lighting will be introduced as needed for individual projects. Prerequisite: JPC 303/Art 324.

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

Introduction to advertising, industrial and public relations photography. Development of concepts and their execution for advertising assignments. Exploration of industrial and public relations photography, their requirements and use. Prerequisite: JPC 303/Art 324

JPC 413/Just 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.

JPC 423 3 Credits ADVANCED COLOR PHOTOGRAPHY (2+3)

Lectures explore the history and development of color photography and the work of the men and women who have led the way. Advanced color techniques and alternate methods of producing color images will be presented. Prerequisite: JPC/Art 323.

JPC 432/BA 432/PS 432 4 Credits RESEARCH METHODS (4+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-S)

JPC 450 3 Credits INTERNSHIP IN PRINT JOURNALISM (0+6)

Open only to superior students receiving faculty recommendation. Assigned work at local newspaper.

JPC 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.

JPC 452 3 Credits INTERNSHIP IN BROADCASTING (0+6)

Open to superior students receiving faculty recommendation. Assigned work in radio or television studio.

JPC 453 3 Credits INTERNSHIP IN PHOTOJOURNALISM (0+6)

Open only to superior students receiving faculty recommendation. Assigned work at local studio, newspaper or magazine.

Library Science

LS 101

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.

1 Credit

LS 303

INTRODUCTION TO U.S. GOVERNMENT DOCUMENTS

This course introduces materials and methods of library research with the use of Federal publications.

1 Credit

LS 305

INFORMATION SOURCES IN THE SOCIAL SCIENCES

This course introduces methods of library research with the use of bibliographies, reference books, indexes and abstracts for the Social Sciences including history, geography, economics, business, sociology, anthropology, psychology, and education.

1 Credit

LS 410

INTRODUCTION TO ARCHIVES ADMINISTRATION

This course is an introduction to the basic principles of archives and manuscripts administration. Course includes discussions of principles and terminology, records appraisal and management, the arrangement of description of collections, conservation, security and outreach. Prerequisite: Graduate or upper level students with concentration of the Humanities or the Social Sciences.

3 Credits

LS 413

INFORMATION SOURCES IN THE HUMANITIES

This course deals with methods of library research and presents bibliographies, reference books, indexes and abstracts for the Humanities disciplines including philosophy, religion, visual and performing arts, and in particular, language and literature. Through weekly written assignments the students discover and correctly cite published information while becoming proficient with the use of Kate L. Turabian's *A Manual for Writers of Term Papers, Theses, and Dissertations*. A bibliography or a bibliographic essay of approximately 20 pages will be required of each student. Prerequisite: Graduate or upper level students with concentration in any discipline of the Humanities or the Social Sciences.

2 Credits

Linguistics

Ling 101

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)

3 Credits

Ling 110

REASONING THROUGH GRAMMAR CONSTRUCTION (3+0)

A course in nonquantitative symbol manipulation which deals with the formal symbol system underlying natural languages. Problems representing the patterns in natural language data are solved in grammar construction exercises. (BA-H)

3 Credits

Mathematics

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

seek employment upon graduation or to pursue postgraduate studies.

The first three years of the recommended mathematics program offered at UAA give students an excellent foundation for any career involving mathematics. In the fourth year of study, the student may choose mathematics electives depending upon his particular interest.

The University's students have taken and done well on the prestigious national William Lowell Putnam examination. A mathematics workbook is provided by the Mathematics Department and contains work tables, mathematics magazines, calculators, and a terminal connected to the University's 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. 45-49; 54-55.
2. Complete the following courses: Math 200, 201, 202, 302, 303, 314, 321, 324, 410 or 422, and AS 307.
3. Complete three additional courses applying advanced mathematical techniques selected according to the student's interests.
4. The program including electives for each student must be developed with the academic advisor from the College of Arts and Sciences and be approved by the head of Mathematics.

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

1. Complete the following courses: Math 200, 201, 202, 303, 305, 314, 420; AS 307; C.S. 105.
2. Complete all requirements for the teaching certificate.
3. Complete two additional courses applying advanced mathematical techniques selected according to the student's interest.
4. The program including electives for each student must be developed with the academic advisor from the College of Arts and Sciences and be approved by the head of Mathematics.
5. Complete the general degree requirements for the BA degree.

MINOR

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

Courses in Mathematics

Math 105

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.

3 Credits

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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)

NOTE: A student may apply no more than 6 credits from any combination of Math 106, 107 and 108 toward the graduation requirements, for a baccalaureate degree.

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 270 **3 Credits** **APPLIED FINITE MATHEMATICS FOR THE MANAGERIAL SCIENCES (3+0)**

Sets, counting, probability, linear equations and inequalities, algebra of matrices, introductory linear programming. Applications emphasizing the relationships of these mathematical concepts to quantitative decision making in managerial and social services. Prerequisite: 2 years high school algebra or equivalent. (BA-M)

Math 272 **3 Credits** **CALCULUS FOR THE MANAGERIAL SCIENCES (3+0)**

Functions and graphs, differentiation, exponential and logarithmic functions, antidifferentiation and integration, functions of several variables. Applications emphasizing the use of these mathematical concepts for construction of quantitative models and decision making in the managerial and social sciences, including market equilibrium, production curves, marginal analysis, growth and decay, density functions, and energy consumption. Prerequisite: Math 270 or Math 107 or equivalent. (BA-M)

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

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

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

Introduction to sets, groups, rings, fields, and Galois theory. Prerequisite: Math 202. (BA-M)

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

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

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

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

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

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

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

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

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

Investigations of the limit concept with special reference to functions on the real line, sequences, and series of real numbers and integration of continuous functions. Prerequisite: Math 202 (BA-M)

Math 345 **3 Credits** **MATH CONCEPTS AND METHODS FOR THE ELEMENTARY SCHOOL I (3+0)**

Concepts in mathematics with an introduction to materials, methods and techniques appropriate for teaching in the elementary school. An introduction to logic and mathematical reasoning, both deductive and inductive, and a brief study of the concepts of sets, set operations, and Venn diagrams. Basic operations on the sets of whole numbers, integers, rationals and reals as well as the historical development of numeral systems are included in the first semester of the two semester sequence.

Math 346 **3 Credits** **MATH CONCEPTS AND METHODS FOR THE ELEMENTARY SCHOOL II (3+0)**

Informal geometry including points, lines, planes, space and motion as well as measurement including the modernized metric system are included in the second semester of this two course sequence. Assessing children's growth and meeting individual differences will be included and some time will be spent in actual classroom observation. Prerequisite: permission of instructor.

Math 371 **3 Credits** **PROBABILITY (3+0)**

Probability spaces, conditional probability, random variables, continuous and discrete distributions, expectation, moments, moment generating functions, and characteristic functions. Prerequisite: Math 202 (BA-M)

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

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

Math 407 3 Credits**Math 408 3 Credits****MATHEMATICAL STATISTICS (3+0) (3+0)**

Distribution of random variables and functions of random variables, interval estimation, point estimation, sufficient statistics, order statistics, and tests of hypotheses. Prerequisite: Math 202 (BA-M)

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

Analytic Function, Cauchy's Theorem. Sequences and series. Prerequisite: Math 324. Prerequisite: Math 202 (BA-M)

Math 420 3 Credits**FOUNDATIONS OF MATHEMATICS (3+0)**

This course is designed to acquaint prospective secondary teachers with the history of the development of mathematical concepts in algebra, geometry, number theory, analytical geometry and calculus from ancient times. Modern trends in secondary school mathematics and interrelationship with other disciplines and modern technology will be emphasized. Prerequisite: Math 202

Math 422 4 Credits**INTERMEDIATE APPLIED MATHEMATICS (4+0)**

Topics in Multi-variate calculus, boundary value problems, solutions of partial differential equations of mathematical physics, complex functions. Prerequisites: Math 321 and Math 302 or concurrent enrollment in Math 302. (BA-M)

Math 425 3 Credits**Math 426 3 Credits****OPERATIONAL MATHEMATICS I AND II (3+0) (3+0)**

Theory and applications of Laplace transforms, finite and exponential Fourier transforms, Fourier transforms on the half line, Hankel, Legendre, and other integral transforms, review of complex variables necessary for the study of these transforms. Prerequisite: Math 422. (BA-M)

Medical Technology

A bachelor of science degree program preparing students for admission to schools of Medical Technology is administered by the Department of Biological Sciences.

A special program enabling those professionals holding MLT certification to obtain Bachelor of Science degrees is also available through the Department of Biological Sciences.

Persons interested in either of these programs should contact the Department of Biological Sciences for further information.

Biol 401 30 Credits**MEDICAL TECHNOLOGY**

Twelve-month medical technology internship at an approved hospital school, including work in clinical chemistry, hematology, microbiology, serology, parasitology, and histologic techniques. Prerequisites: Senior standing in the Medical Technology Program and acceptance at an approved school of Medical Technology

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 in Mus 305, Recital Attendance, P/NP, no credit. Recital attendance is a serious consideration at the time of review for advancement to upper-division standing.

Furthermore, each Music Major's Recital Attendance record will affect by one letter grade the semester private lesson grade or that of the class most directly related to applied music, i.e., Master Class, Chamber Music, Ensembles.

BACCALAUREATE DEGREES IN MUSIC

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

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

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

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

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

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

BACHELOR OF ARTS

The Bachelor of Arts degree in Music is a curriculum planned for those desiring a broad liberal education with a concentration in music. The individual pursuing this degree samples courses of his choosing in each of the major academic areas while still having time to strengthen his understanding of and performance in his chosen areas of music.

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA degree as shown on pp. 45-49; 54-55.
2. Complete the following major specialty requirements.

Credits

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Mus 131, 132 — Basic Theory	6
Mus 133, 134 — Sightsinging and Ear Training	4
Mus 153 — Functional Piano.....	1
(can be passed successfully within the first four semesters)	
Mus 161-462 — Private Lessons.....	8
(on major instrument)	
Mus 221, 222 — History of Music.....	6
Mus 231, 232 — Advanced Theory	6
Mus 233, 234 — Sightsinging and Ear Training	4
Mus 251 — Basic Conducting.....	2
Mus 305 — Recital Attendance.....	0
Mus 307 — Ensembles.....	10
Mus 331 — Form and Analysis.....	3
Mus 472 — Master Class	0-8
Electives to Total	130

BACHELOR OF MUSIC

General Degree Requirements

Engl 111	3
Engl 211, 213, or 311	3
Spch 111	3
BA-H courses (not music)	15
BA-M, -N, -S courses (at least two groups)	15

Major Requirements

See specific requirements for one of the three major programs below.

Approved electives to total

BACHELOR OF MUSIC-PERFORMANCE

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

1. Complete general degree requirements for the BM degree.
2. Complete the following major specialty requirements.

Required Music Courses:	Credits
Mus 131, 132 — Basic Theory	6
Mus 133, 134 — Sightsinging and Ear Training	4
Mus 153 — Functional Piano (can be passed successfully anytime within the first four semesters) ..	1
Mus 161-462 — Private Lessons (on major instrument)	24
Mus 221, 222 — History of Music.....	6
Mus 231, 232 — Advanced Theory	6
Mus 233, 234 — Sightsinging and Ear Training	4
Mus 251 — Basic Conducting.....	2
Mus 305 — Recital Attendance.....	0
Mus 307 — Ensembles.....	16
Mus 472 — Master Class	0-16

Ten credits to be elected from the following courses:

Mus 331 — Form and Analysis.....	3
Mus 351 — Choral Conducting	2

OR

Mus 352 — Instrumental Conducting	2
Mus 431 — Counterpoint	3
Mus 432 — Orchestration	3
Mus History or Literature Electives.....	5-8

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

Performance majors may enroll for four credits per semester on their major instrument.

BACHELOR OF MUSIC-ELEMENTARY EDUCATION

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

1. Complete general degree requirements for the BM degree.
2. Complete the following major specialty requirements (must include Psy 101).

Required Music Courses:	Credits
Mus 131, 132 — Basic Theory	6
Mus 133, 134 — Sightsinging and Ear Training	4
Mus 153 — Functional Piano.....	1
Mus 161-462 — Private Lessons (on a major instrument)	14
Mus 221, 222 — History of Music.....	6
Mus 231, 232 — Advanced Theory	6
Mus 233, 234 — Sightsinging and Ear Training	4
Mus 251 — Basic Conducting.....	2
Mus 305 — Recital Attendance.....	0
Mus 307 — Ensembles.....	16
Mus/Ed 309 — Elementary School Music Methods.....	3
Mus 315 — Music Methods and Techniques	10
Mus 331 — Form and Analysis.....	3
Mus 351 — Choral Conducting	2

OR

Mus 352 — Instrumental Conducting	2
Mus 432 — Orchestration	3
Mus 472 — Master Class	0-8

Required Education Courses:

Required Education Courses:	Credits
Ed 201 — Orientation to Education.....	3
Ed 212 — Human Development and Learning.....	3
Ed 313 — Educational Psychology.....	3
Ed 332 — Tests and Measurements.....	3
Ed 409E — Reading Process	3
Ed 411 — Reading Instruction, Elementary	3
Ed 410 — Reading in the Content Area.....	3
Ed 423 — History, Philosophy, and Sociology of Education.....	3
Ed 452E — Student Teaching-Elementary.....	9
One of the following:	
Ed 302 — Language Arts for Elementary School.....	2
Ed 304 — Literature for Children.....	2
Ed 311 — Audio-Visual Methods and Materials.....	3

A half recital on the student's major instrument is required in the senior year.

BACHELOR OF MUSIC-SECONDARY EDUCATION

The Bachelor of Music-Secondary Education degree offers the student extensive training in general education and also proficiency in developing and directing music programs at the secondary level. During the course of his studies the student is also given sufficient time to develop excellence in performance areas.

1. Complete general degree requirements for the BM degree.
2. Complete the following major specialty requirements (must include Psy 101).

Required Music Courses: Credits

Mus 131, 132 — Basic Theory	6
Mus 133, 134 — Sightsinging and Ear Training	4
Mus 153 — Functional Piano (can be passed successfully anytime within the first four semesters)	1
Mus 161-462 — Private Lessons (on major instrument)	14
Mus 221, 222 — History of Music	6
Mus 231, 232 — Advanced Theory	6
Mus 233, 234 — Sightsinging and Ear Training	4
Mus 251 — Basic Conducting	2
Mus 305 — Recital Attendance	0
Mus 307 — Ensembles	16
Mus 315 — Music Methods and Techniques	10
Mus 331 — Form and Analysis	3
Mus 351 — Choral Conducting	2
OR	
Mus 352 — Instrumental Conducting	2
Mus/Ed 405 — Methods of Teaching Music in the Secondary school	3
Mus 432 — Orchestration	3
Mus 472 — Master Class	0-8

Required Education Courses: Credits

Ed 201 — Orientation to Education	3
Ed 212 — Human Development and Learning	3
Ed 313 — Educational Psychology	3
Ed 332 — Tests and Measurements	3
Ed 409S — Reading Process	3
Ed 410 — Reading in the Content Area	3
Ed 423 — History, Philosophy, and Sociology of Education	3
Ed 452S — Student Teaching	9

A half recital on the student's major instrument is required in the senior year.

MINOR IN MUSIC

Mus 104 and 131 or 132	6
Mus 122 or 221 or 222	3
Mus 307	4
Mus 161-462	4
Mus 313 or 315 or 472	3
including 6 or more upper-division credits	

Courses in Music**Mus 104 3 Credits**
FUNDAMENTALS OF MUSIC (3+0)

Introduction to the basic materials of music. Study of intervals, scales and key signatures and rhythm and meter. Keyboard orientation. Basics of sightsinging and ear training. (offered only in the summer) (BA-H)

Mus 122 3 credits
MUSIC OF TODAY (3+0)

Investigation of the basic elements of music, popular music, classical music, folk and ethnic music, jazz, and music for the theatre. To be offered during the summer only. No Prerequisites. (BA-H)

Mus 131 3 Credits
BASIC THEORY I (3+0)

The organization of musical materials with emphasis on diatonic functional harmony. Introduction to part writing and to keyboard skills. Should be taken concurrently with Mus 133. (BA-H)

Mus 132 3 Credits**BASIC THEORY II (3+0)**

Continuation of Mus 131 with emphasis on part writing and melody harmonization. Non-harmonic tones and simple modulation. Development of keyboard skills. Should be taken concurrently with Mus 134. Prerequisite: Mus 131 or permission of instructor. (BA-H)

Mus 133 2 Credits**SIGHTSINGING AND EAR TRAINING I (2+0)**

The development of basic skills in hearing and reading music. The study of intervals, chords and common metrical patterns. Should be taken concurrently with Mus 131. (BA-H)

Mus 134 2 Credits**SIGHTSINGING AND EAR TRAINING II (2+0)**

Continuation of Mus 133 with emphasis on rhythmic, melodic and harmonic dictation. Should be taken concurrently with Mus 132. Prerequisite: Mus 133 or permission of instructor. (BA-H)

Mus 153 1 Credit**FUNCTIONAL PIANO (1+0)**

Instruction designed to help music majors obtain the performance, sight-reading, and harmonization-transposition skills needed to pass the Piano Proficiency Examination. Prerequisites: Music Majors — Mus 131 or equivalent or concurrent enrollment in Mus 131.

Mus 161 2 or 4 Credits**PRIVATE LESSONS**

Students are required to confer with music staff to determine appropriate placements. Voice, Piano and instruments of the band and orchestra may be taken indefinitely by non-music majors or as preparatory division for music majors and minors. Performance majors may enroll for 4 credits.

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

Continuation of Mus 161.

Mus 221 3 Credits**HISTORY OF MUSIC I (3+0)**

Music before 1750. (BA-H)

Mus 222 3 Credits**HISTORY OF MUSIC II (3+0)**

Music since 1750. (BA-H)

Mus 231 3 Credits**ADVANCED THEORY I (3+0)**

Continued study of part writing and melody harmonization. Modulation to related keys, secondary dominants and introduction to chromatic harmony. Free style harmonization. Binary and ternary forms. Should be taken concurrently with Mus 233. Prerequisite: Mus 132 or permission of instructor.

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

Continuation of Mus 231. Chromatic harmony and higher numbered chords. Introduction to 20th Century harmony. Keyboard harmonization of melodies. Should be taken concurrently with Mus 234. Prerequisite: Mus 231 or permission of instructor.

Mus 233 2 Credits**SIGHTSINGING AND EAR TRAINING III (2+0)**

The development of advanced skills in hearing and reading music. Introduction to modulation and chromaticism. More complex rhythmic patterns. Should be taken concurrently with Mus 231. Prerequisite: Mus 134 or permission of instructor.

Mus 234 2 Credits**SIGHTSINGING AND EAR TRAINING IV (2+0)**

Continuation of Mus 233. Should be taken concurrently with Mus 232. Prerequisite: Mus 233 or permission of instructor.

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Mus 251 **2 Credits**

BASIC CONDUCTING (2+0)

Introduction to principles of conducting. Prerequisite: Mus 132 or permission of instructor. (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 **0 Credit**

RECITAL ATTENDANCE

Mandatory for all music majors every semester and in all four music degrees. Grade: Pass/No Pass

Mus 307 Ensembles **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.

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.

UNIVERSITY WIND ENSEMBLE(2+0)

In-depth study of the rehearsal and performance of original band music and transcriptions from the Renaissance up to and including 20th Century Literature. Permission of instructor.

MUSIC 308 **1 Credit**

UAA PEP BAND (1+0)

Ensemble rehearsals and performances for UAA athletic events. UAA Pep Band is scheduled through hockey and basketball season. No prerequisite. Participation in the Pep Band will not qualify for the Music Majors ensemble requirement.

Mus 309/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.

Brass
Woodwinds
Strings
Voice
Percussion

Mus 331 **3 Credits**

FORM AND ANALYSIS (3+0)

Structural principles and stylistic analysis of music of the 18th and 19th centuries. Prerequisite: Mus 232 or permission of instructor.

Mus 351 **2 Credits**

CHORAL CONDUCTING (2+0)

Principles of conducting and interpretation with vocal ensembles. Prerequisite: Mus 232 or permission of instructor.

Mus 352 **2 Credits**

INSTRUMENTAL CONDUCTING (2+0)

Principles of conducting and interpretation with instrumental ensembles. Prerequisite: Mus 232 or permission of instructor.

Mus 361 **2 or 4 Credits**

Mus 362

2 or 4 Credits

PRIVATE LESSONS

Continuation of Mus 261, 262.

Mus 405/Ed 405 **3 Credits**

METHODS OF TEACHING MUSIC IN THE SECONDARY SCHOOL (3+0)

Methods and problems of teaching music in junior and senior high schools. Prerequisites: 100 semester hours, Mus 232 and Ed 332 and prerequisites thereto, or permission of instructor.

Mus 420 **3 Credits**

MUSIC IN THE MEDIEVAL AND RENAISSANCE

PERIODS (3+0)

Investigation of musical developments in Europe from Gregorian Chant to 1600. Evolution of the motet, medieval and Flemish. Structures of the 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 222 or permission of instructor.

Mus 421 **3 Credits**

MUSIC IN THE BAROQUE PERIOD (3+0)

Style study of the music from about 1600 to 1750. Examination of style and performance practices in opera, oratorio, cantata, and other vocal forms of the period. Development of the keyboard instruments: organ, harpsichord, spinet, clavichord, virginals, and piano. Historic consideration of the instrumental evolution: strings, winds and brasses. Cross-cultural influences: art, literature, and painting. Intensive listening and reading of contemporary documents in translation. Consideration of modern performance of old music. Prerequisite: Mus 222 or permission of instructor.

Mus 422 **3 Credits**

MUSIC IN THE CLASSICAL PERIOD (3+0)

Musical styles from J.S. Bach through Beethoven, as exemplified by the works of Bach's sons, Haydn, Mozart, Beethoven, and others of the period. Examination of the development of sonata and concerto forms, as well as opera and chamber music. Style studies of representative examples from the works of Haydn, Mozart, and Beethoven. Musical developments in Italy, England, France, Germany and Austria. Prerequisite: Mus 222 or permission of instructor.

Mus 423 **3 Credits**

MUSIC IN THE ROMANTIC PERIOD (3+0)

Study of musical trends in the 19th century. Romanticism, Nationalism, Italian Opera, the Wagnerian Drama, the Art Song for voice and piano, the character piece for piano, and the symphonic poem for orchestra, as exemplified by representative works, chosen from the music of Schubert, Berlioz, Mendelssohn, Schumann, Chopin, Liszt, Wagner, Brahms, Verdi, Tchaikovsky, and others. Related readings in other aspects of the Romantic movement. Prerequisite: Mus 222 or permission of instructor.

Mus 424 **3 Credits**

MUSIC IN THE TWENTIETH CENTURY (3+0)

Important manifestations and trends in music since 1900. Style studies of significant works from the modern and contemporary repertoire. Prokofiev, Stravinsky, Hindemith, Schoenberg, Bartok, the avant-garde, etc. Prerequisite: Mus 222 or permission of instructor.

Mus 431 **3 Credits**

COUNTERPOINT (3+0)

Study of contrapuntal techniques of the sixteenth and eighteenth centuries. Writing in appropriate vocal and instrumental forms. Prerequisite: Mus 232 or permission of instructor.

Mus 432 ORCHESTRATION (3 + 0) 3 Credits

Principles and practices of composing and transcribing music for various instrumental ensembles, including band and orchestra. Prerequisite: Mus 232 or permission of instructor.

Mus 461 2 or 4 Credits

Mus 462 2 or 4 Credits

PRIVATE LESSONS

Continuation of Mus 361, 362.

Mus 472 2 Credits

PIANO MASTER CLASS (2 + 0)

Performance, comparative analysis and discussion of the piano literature, and close examination of its styles and periods (early Baroque through 20th Century). Lecture course on the technical and interpretive aspects of the pianistic literature, evolution and development of both the instrument and the technique from their origins to the present, cross-cultural influences in regard to styles, movements, schools, etc. Illustrated by the performance of related pianistic works. Mandatory at all times for piano performance majors. 8 credits minimum required for piano majors in Music Education.

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.

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. 45-49; 54-55.
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, and Phys 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/Psychology/Statistics
Mathematics and Chemistry

Acceptable science credits from the following may be taken at UAA, or in transfer from other institutions:

Natural Resource Management
Environmental Sciences
Wildlife Management
Oceanography
Health Sciences
Engineering
Geography
Applied Statistics
Mathematics
Psychology

PREPROFESSIONAL (MEDICINE, DENTISTRY, VETERINARY MEDICINE) DEGREES

The University of Alaska, Anchorage offers several programs designed to meet all admission requirements for most professional schools. Since there is no specified preprofessional degree, students usually major in one of the sciences, such as Biologi-

cal Sciences, Chemistry, or Natural Sciences. The Natural Science Degree is most flexible and can be used to meet admission requirements of specific professional schools. The degrees available in the Departments of Biological Sciences and Chemistry can be utilized as preprofessional courses of study while offering the potential for alternate careers in a wide range of science related areas. Students interested in a preprofessional course of study should contact Chairpersons or Coordinators of one of the programs named above.

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 487 — Comp. Anat. of Vertebrates	
Biol 488 — Vert. Develop. Anatomy	
Biol 340 — General Microbiology	
Biol 361 — Cell Biology	
Chemistry sequence.....	15
Organic Chemistry, Biochem I, II	
Additional science electives, including AS 307	
or Math 200.....	17-18

Philosophy

Phil 101 3 Credits

INTRODUCTION TO LOGIC (3+0)

An analysis of argumentation and informal fallacies; an introduction to deductive logic and an examination of evidence, proof and testability in the sciences. (BA-M)

Phil 201 3 Credits

INTRODUCTION TO PHILOSOPHY (3+0)

An examination of the metaphysics, cosmology, ethics and politics of the great thinkers representative of the major epochs in Western civilization. (BA-H)

Phil 211 3 Credits

HISTORY OF PHILOSOPHY (3+0)

An introduction to the great thinkers of the Greek, Latin, Medieval and Renaissance periods in Western civilization; a comparative examination of the cosmological, religious, ethical, political and scientific ideas which shaped, intellectually, each of these epochs. (BA-H)

Phil 212 3 Credits

HISTORY OF PHILOSOPHY II (3+0)

An introduction to the great thinkers of the 17th century scientific revolution, the Enlightenment, German Idealism, contemporary positivism and existentialism; a comparative examination of the cosmological, ethical, political and scientific ideas which shape each of these periods. Prerequisite: Phil 211 (BA-H)

Phil 301 3 Credits

ETHICS (3+0)

An introduction to the great moral thinkers of Western civilization, and the use of their ethical systems in an attempt to resolve contemporary issues such as abortion, euthanasia, equal rights, civil disobedience and professional ethics. (BA-H)

Phil 421 3 Credits

PHILOSOPHY OF THE SOCIAL SCIENCES (3+0)

A general introduction to the philosophical problems common to the social sciences, focusing on issues concerning method, epistemology and modes of explanation. Moreover, the course will center on an issue especially appropriate to each of these disciplines: history, psychology, anthropology, linguistics and sociology.

Photography

Courses and programs in Photography are listed under Journalism and 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. (BA-N)

Phys 212 4 Credits

GENERAL PHYSICS (3+3)

Calculus based course emphasizing simple electromagnetic theory, geometrical and simple optics, and selected topics in modern physics. Prerequisites: Math 200 and Phys 211. Math 201 would be useful. (BA-N)

Political Science

Politics and government are among the most pervasive organized activities in modern society. They affect everyone, whether as citizen, voter or employee. The study of political science attempts to give the student a practical and theoretical knowledge of the workings of governmental systems from the local to the international level.

The Political Science program introduces the student to practical values, trains him in political analysis and informs him of government processes at all levels. The department seeks to provide a broad liberal arts education with a professional option in the area of public administration. The Political Science faculty attempts to work closely with the student to tailor a program to fit his or her needs and is very receptive to curriculum development by the student.

BACHELOR OF ARTS

1. Complete general degree requirements for the BA degree as shown on page 45-49; 54-55.
2. Complete courses for major specialty.

	Credits
Econ 121, 122 — Principles of Economics.....	6
Hist 131, 132 — History of U.S.	6
PS 101, 102 — Introduction to American Government and Introduction to Political Science.....	6

3. Complete requirements for one of the following emphasis areas.

Political Science Emphasis

PS 201, 202 — Comparative Politics.....	6
PS 321, 322 — International Relations and Foreign Policy	6
PS 401, 402 — Public Opinion and Political Parties.....	6
PS 432 — Research Methods	4
From the following PS courses: PS 315, 411, 412, or 415	6
	28

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 351 — Public Finance.....	3
PS 359 — Reg. of Industry.....	3
PS 361 — Personnel Management.....	3
PS 401, 402 — Public Opinion and Political Parties.....	6
PS 430 — Managerial Acct. for Pub. Admin.....	3
PS 432 — Research Methods	4
PS 480 — Organizational Theory	3
	37
Minimum upper division courses.....	48
Electives to Total.....	130
Minor in Political Science	

A minor in Political Science requires at least 18 credits, including PS 101 and 102. At least 6 hours must be upper division credit.

A minor in Public Administration requires PS 101, PS 301, PS 361, PS 480 and 6 hours of approved PS electives.

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 INTRODUCTION TO COMPARATIVE POLITICS (3+0)

An introduction to the subject matter, concepts and methods of comparative politics. (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. Prerequisite: PS 201 (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 main stream 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 US FOREIGN POLICY (3+0)

An introductory course in U.S. foreign policy considering the history of U.S. foreign policy and the constitutional provisions for making foreign policy. The course will also review the bases of current foreign policy by focusing on selected contemporary foreign policy problem areas. (BA-S)

PS 330 3 Credits CONGRESSIONAL — PRESIDENTIAL RELATIONSHIPS (3+0)

Major problems involved in representative government with respect to legislative and presidential relationships. Analysis of structure, organization, and procedures; problems of representation; relationships between the legislature, the executive, and the people. (BA-S)

PS 331 3 Credits URBAN GOVERNMENT AND ADMINISTRATION (3+0)

The problem of government in cities; the forms of city government, municipal management, relationships among levels and areas of government, and emerging patterns of urban regionalism. (BA-S)

PS 332 3 Credits INTERNATIONAL LAW AND ORGANIZATION (3+0)

Development, structure, policies, and problems of public international law and organizations. Accomplishments and limitations of universal and regional organizations and law. (BA-S)

PS 351/Econ 351 3 Credits PUBLIC FINANCE (3+0)

Government taxation, borrowing, and spending; economic effects of taxation, influence of fiscal policy on economic activity. Prerequisites: Econ 121, 122. (BA-S)

PS 359/BA 359 3 Credits REGULATION OF INDUSTRY (3+0)

Effects of government regulation, economic policy and executive policy on private and public enterprise. Prerequisites: Econ 121 and 122. (BA-S)

PS 361/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. Prerequisites: Econ 121, 122 and BA 335 (BA-S)

PS 401 3 Credits
PUBLIC OPINION AND ELECTORAL BEHAVIOR (3+0)

A study of public opinion and electoral behavior. The individual and his participation in the political system is studied through the act of voting and the process of public opinion formation. (BA-S)

PS 402 3 Credits
POLITICAL PARTIES AND GROUP POLITICS (3+0)

The theory and behavior of political parties and interest groups in the American political system. The role of parties in the organizing elections and the legislative and executive branches are discussed as well as general organized activity with both local and national examples. (BA-S)

PS 406 3 Credits
CONTEMPORARY POLITICAL ISSUES (3+0)

An in-depth and sharply focused study of 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. (BS-S)

PS 411 3 Credit
POLITICAL THEORY I (3+0)

Ancient and medieval political thought. (BA-S)

PS 412 3 Credits
POLITICAL THEORY II (3+0) The political thought of the modern world. (BA-S)**PS 415 3 Credits**
Political Theory III (3+0)

Recent and contemporary political thought. (BA-S)

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 432/BA 432/JPC 432 4 Credits
RESEARCH METHODS (4+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. (BA-S)

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

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

PS 436/JUST 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. (BA-S)

PS 452 3 Credits
PROCEDURAL ASPECTS OF JUSTICE ADMINISTRATION (3+0)

The origins and development of procedural safeguards in the administration of justice. Attention paid to the constitutional growth of

procedural rights and their application to the changing police, judicial and correction systems. (BA-S)

PS 480/BA 480 3 Credits
ORGANIZATIONAL THEORY (3+0)

Literature of organizational theory; emphasis on theoretical concepts, social science research techniques and organizational behavior. Prerequisite: junior standing, completion of behavioral science, requirements, or permission of instructor. (BA-S)

Psychology

The baccalaureate program in psychology offers students psychological 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 a general interest in human nature will probably take a different sequence of psychology courses than a student who is preparing for advanced work in psychology. The competition for acceptance into Ph.D. programs is intense and a potential applicant should plan undergraduate work carefully.

Early and frequent consultation with an advisor is helpful in selecting courses which will provide a solid foundation in psychology and a good general education.

BACHELOR OF ARTS

BACHELOR OF SCIENCE

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA or BS degree as shown on pp. 45-49; 54-55.
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 (Psy 101 and 102)	3
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METHODOLOGICAL COURSES

Psy 251 — Statistics or AS 300 Elementary and Probability Statistics	3
Psy 261 — Introduction to Experimental Psychology (Psy 101 or 102)	3
Psy 373 — Psychological Testing (Psy 251 or AS 300)	3
Psy 420 — Research Methods in Experimental Psychology	3
Psy 425 — Techniques of Psychotherapy (Psy 338 and 406)	3

DEVELOPMENTAL

Psy 150 — Human Development	3
Psy 245 — Child Development (Psy 101 or 102)	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 (Psy 101 or 102)	3
Psy 370 — Physiological Psychology (Psy 101 or 102)	4
Psy 430 — Comparative Psychology (Psy 101 or 102)	3

LEARNING AND MOTIVATION

Ed 313 — Educational Psychology (Psy 101 and ED 212)	3
Psy 360 — Learning and Behavior (Psy 101 or 102)	4
Psy 405 — Memory and Conceptual Processes (Psy 101 or 102)	3
Psy 415 — Theories of Learning and Motivation (Psy 101 or 102)	3

INDIVIDUAL BEHAVIOR

Psy 202 — Psychology of Adjustment (Psy 101 or 102)	3
Psy 338 — Abnormal Psychology (Psy 101 or 102)	3
Psy 406 — Personality Theories (Psy 101 or 102)	3
Psy 445 — Behavior Modification (Psy 360)	3

GROUP BEHAVIOR

Psy 302 — Social Psychology (Psy 101 and 102)	3
Psy 453 — Community Psychology	3

PSYCHOLOGY ELECTIVES

Psy 424 — Stress and Stress Management	
Other psychology courses as offered.	

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) .	
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MINOR IN PSYCHOLOGY

Complete Psy 101 and 102 and 15 additional credits in psychology, at least 9 at the upper division level.

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.
- Admission to Candidacy in Counseling Psychology:
 - Acceptance to graduate study.
 - Department approval for advancement to Candidacy. This will be determined by general review of the student's graduate work including performance in Psy 623, Counseling Skills, completion of all undergraduate prerequisites to the core courses required for the graduate program (minimum 8 hours of graduate work), and submission of a formal program of study, a provisional thesis title and a letter of intent.
 - A minimum grade of "B" in all course work applied to the graduate degree.

3. Required courses:

PHASE I	Credits
Psy 623 — Counseling Skills (prereq. Psy 338 and either 406 or 425)	3
Psy 625 — Family Therapy (Prerequisite: Psy 623)	3
Psy 445 — Behavior Modification (Prereq. Psy 360)	3
Psy 633 — Individual Assessment (prereq. Psy 373)	3
Psy 420 — Research Methods in Experimental Psychology (pre- or co-req. is one statistics course) ...	3
Psy 637 — Organization Environments (prereq. Psy 302)	3

the degree.

The student must have been admitted to Candidacy to progress past this point.

PHASE II

Psy 650a — Internship I (prereq. 623, 625, 633 and either 624 or 631)3

Psy 650b — Internship II (prereq. 650a)3

Psy 699 — Thesis3

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COMPREHENSIVE EXAMINATIONS

A comprehensive written exam covering general knowledge of counseling psychology will be offered the second Friday of Fall and Spring semesters. Prerequisite: Admission to Candidacy.

A video-taped interview under counseling conditions must be submitted for evaluation no later than the fourth week of the Fall or Spring semester. Prerequisite: Admission to Candidacy.

THESIS

The student will present a thesis under the direction of an advisory committee.

Courses in Psychology

Psy 101 3 Credits INTRODUCTION TO PSYCHOLOGY I (3+0)

An introduction to the fundamentals of general psychology and human behavior. Topics included are: overview of field, physiology, genetics, learning, memory, language, emotions, motivation, and personality. This is the first half of a two-semester survey. (BA-S)

Psy 102 3 Credits INTRODUCTION TO PSYCHOLOGY II (3+0)

A continuation of the survey of general psychology and human behavior. Topics included are developmental sensation perception, abnormal behavior, clinical (therapy), social psychology, intelligence and personality testing, and statistics. (BA-S)

Psy 150 3 Credits HUMAN DEVELOPMENT (3+0)

An introductory overview of the various aspects of development and changes which occur throughout a person's life span. Covers prenatal period, infancy, early and middle childhood; adolescence; early, middle and late adulthood. (BA-S)

Psy 202 3 Credits PSYCHOLOGY OF ADJUSTMENT (3+0)

Application of psychological principles to the problems of everyday life. Course focus will be an emphasis on the analysis of developmental life style adjustment patterns. Mechanics of adjustment will be demonstrated by various practicum assignments. Prerequisites: Psy 101 or 102. (BA-S)

Psy 224 3 Credits SUBSTANCE ABUSE COUNSELING I (3+0)

Introduction to counseling techniques and practices for substance abuse counselors, and for persons interested in the psychological aspects of substance abuse. Intended primarily for paraprofessionals seeking certification.

Psy 225 3 Credits SUBSTANCE ABUSE COUNSELING II (3+0)

Continuing survey and study of substance abuse counseling techniques and practices, including treatment contracts, and individual and group modalities. Intended primarily for paraprofessionals seeking certification. Prerequisite: Psy 224.

Psy 245 3 Credits CHILD DEVELOPMENT (3+0)

A study of the physical, emotional, cognitive and social aspects of a child's development from the prenatal period to the beginning of adolescence. Theoretical view of development and the effects of genetics, the environment and socialization are included. Prerequisites: Psy 101 or 102. (BA-S)

Psy 246/Soc 246 3 Credits PSYCHOLOGY OF ADOLESCENCE (3+0)

Intellectual, emotional, social and physical development patterns during the adolescent years. Prerequisites: Psy 101 or 102. (BA-S)

Psy 251 3 Credits INTRODUCTORY STATISTICS FOR BEHAVIORAL SCIENCES (3+0)

Introduction to the purposes and procedures of statistics calculating methods for the description of groups (data reduction) and for simple inferences about groups and differences between group means. Prerequisite: six hours of Psychology, Sociology or Behavioral Science.

Psy 261 3 Credits INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY (3+0)

Introduction to and laboratory application of the experimental methods to some problems of psychology using both human and animal subjects. Prerequisites: Psy 101 or 102. (BA-S)

Psy 301 3 Credits SYSTEMS AND THEORIES OF PSYCHOLOGY (3+0)

A survey of influential theories and concepts related to contemporary psychology. This course provides a general overview of psychological thought for the potential graduate student. Prerequisites: Psy 101 and 102. (BA-S)

Psy 302/Soc 302 3 Credits SOCIAL PSYCHOLOGY (3+0)

An analysis of inter-group relationships in terms of process and value orientation, their influences on the personality, and the various aspects of collective behavior on group and person. Prerequisites: Psy 101 and 102 or Soc 101. (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 (3+0)

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 (3+0)

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 300. (BA-S)

Psy 405 3 Credits
MEMORY AND CONCEPTUAL PROCESSES (3+0)

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 (3+0)

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 424 3 Credits
STRESS MANAGEMENT (3+0)

Examines the use of self-control and anxiety-reduction techniques in the management of stress. Topics include: self control, goal setting, time management, assertive training, and relaxation techniques. Prerequisite: Psy 360 or 415 or permission of instructor.

Psy 425 3 Credits
TECHNIQUES OF PSYCHOTHERAPY (3+0)

A survey of current psychotherapeutic approaches, including basic assumptions, basic techniques, and related research findings. Films, demonstrations, and experiential involvement are included. Prerequisite: Psy 338 or 406.

Psy 430 3 Credits
COMPARATIVE PSYCHOLOGY (3+0)

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 (3+0)

Survey of behavior modification techniques and application. Examines the use of behavior therapy techniques with preschoolers, children, adolescents, and adults. Prerequisite: Psy 360.

Psy 450 3 Credits
REHABILITATION OF SUBSTANCE ABUSERS (3+0)

The purpose of this course is to strengthen the knowledge base of substance abuse counselors and others regarding the principles and practices of rehabilitation. Techniques of instruction will include lectures, simulation and demonstration, guided group discussions, resource persons and independent guided study.

Psy 452 3 Credits
CRISIS INTERVENTION: THEORY, PRACTICE AND RESOLUTION (3+0)

The theory of, historical and contemporary approaches to, crisis intervention will be explored. Specific emphasis will be on the identification of crises situations and their resolutions.

Psy 453 3 Credits
COMMUNITY PSYCHOLOGY (3+0)

An examination of interaction theories and research applied to communication, dynamics of power, confrontation and conflict, and creative problem solving. Prerequisite: 6 credits in psychology.

Psy 480 3 Credits
PSYCHOLOGY OF ADDICTIONS (3+0)

The intent of this course is to provide a forum which will explore approaches to the understanding of alcohol and drug use, the problems which both can create, and methods of treatment prevention.

Psy 623 3 Credits
COUNSELING SKILLS (3+0)

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 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 (3+0)

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 (3+0)

Advanced behavior therapy course, emphasizing the clinical application of behavior modification techniques, and familiarity with advanced professional literature. Prerequisite: Psy 445.

Psy 633 3 Credits
INDIVIDUAL ASSESSMENT (3+0)

Administering, scoring and interpreting assessment tools (such as intelligence, personality, behavioral, educational and vocational measures,) writing psychological reports; interviews, case histories and case conference techniques resulting in a meaningful individual evaluation. Prerequisite: Psy 373.

Psy 635 3 Credits
PSYCHOMOTOR THERAPY (3+0)

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 (3+0)**

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, (3) Psy 633 or 636 and (4) Psy 625.

Public Communications

The Public Communications program and courses are listed under Journalism and Public Communications.

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.

1. Complete the general University requirements**2. General Degree Requirements Credits**

Communication.....12

Speech.....3

English Composition.....9

(111, 211 or 213 and one selected from 311, 372 or 414)

Humanities.....12

(Art, English, History, Humanities, Linguistics, Music, Philosophy, JPC, Theater) Choose from at least 2 disciplines with a maximum of 6 in any one

Social Sciences.....21

(Anthropology, Bus. Ad., Economics, Justice, Political Science, Psychology, Sociology) Choose from at least 3 disciplines with a maximum of 9 in any one

Natural Sciences.....7

Biology w/ Lab.....4

Choose one other course from Biology, Chemistry, Physics.....3

Electives.....12

TOTAL 64

3. Major Requirements Credits

Social Work Methods & Practice.....24

Four semesters — SWK 361, SWK 362, SWK 461, & SWK 462 - (6 credits each)

Social Welfare as a Social Institution.....6

SWK 305.....3

SWK 306.....3

Man and His Environment.....9

SWK 342.....3

SWK 343.....3

SOC 407/SWK 407.....3

Social Research.....6

SOC 251.....3

SOC 352.....3

Social Work Problem Areas.....21

In consultation with advisor student selects appropriate courses in at least two special interest areas such as corrections substance abuse, family and child welfare, health services, geriatrics, etc.

TOTAL 66

48 of which must be at the 300 level or higher

ADMISSION REQUIREMENTS

1. Be an admitted student at UAA
2. Completion of 45 semester credit hours with an accumulated GPA of 2.0.
3. Achieve at least a C grade in prerequisite social work courses.
4. Submit Nelson/Denny reading test scores.
5. Submit a personal statement covering life experiences which have influenced student's decision to pursue a social work career.
6. Take 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.

SATISFACTORY PROGRESS

In order to progress within the Bachelor of Social Work Program, the student must have a grade of C or better in each course required in the Major. Adherence to the Code of Ethics established by the National Association of Social Workers is also required.

Courses in Social Work

SWK 106/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).

Prerequisite: Soc 101

SWK 305 3 Credits**SOCIAL WELFARE: PROGRAMS AND SERVICES (3+0)**

Emergence of social welfare as a basic institution in contemporary society. Analysis of the structure and function of current social welfare programs and the role of social work within those systems will be addressed. Prerequisite: SOC/SWK 106. (BA-S)

SWK 306 3 Credits**SOCIAL WELFARE: POLICIES AND ISSUES (3+0)**

The formulation of social welfare policy as the results of interacting social, political and economic factors. Emphasis is placed upon analyzing various current social welfare programs and services which operationalize such policy, and on various methods for influencing policy development. Prerequisite: SWK 305 or consent of instructor. (BA-S)

SWK 310 3 Credits**MENTAL HEALTH PROGRAMS AND SERVICES (3+0)**

A broad overview of current mental health programs and service delivery systems and their development through history. The political and economic issues of mental health policy making will be addressed as will differential intervention strategies and the needs of specific target groups.

SWK 342 3 Credits**HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT (3+0)**

Identification and analysis of various theoretical frameworks for understanding human behavior with emphasis on interaction between the individual and his/her social environment. Developmental stages and tasks will be viewed in the context of social systems and societal institutions with focus on the diverse influences impacting human growth and change. Prerequisite: Psy 150 and Anth 200 or consent of instructor. (BA-S)

SWK 343 3 Credits**HUMAN BEHAVIOR: DIVERSITY, DISCRIMINATION & SERVICE DELIVERY (3+0)**

Focus on diverse behavior needs and social problems of racial, cultural and other minority groups. Organizational structures and service delivery methods will be analyzed for their effectiveness in addressing such problems. Prerequisite: SWK 342 or consent of the instructor.

SWK 361 6 Credits**SOCIAL WORK METHODS AND PRACTICE (3+8)**

Beginning social work methods which identifies and analyzes generic social work practice. Knowledge and application of social work values and ethics, interventive roles, and communication skills are addressed along with the problem solving process and the concept of the client system. The student is introduced to these concepts and through field work given the opportunity to see their application in social work practice. Student attends seminar class three hours weekly and completes 80 clock hours of direct practice in an approved agency under the supervision of a field instructor appointed by the University. Permission of Instructor. (BA-S)

SWK 362 6 Credits**SOCIAL WORK METHODS AND PRACTICE (3+8)**

Expansion of knowledge and skill in the five areas introduced in SWK 361 with particular emphasis on their application to professional practice with individuals, families and small groups. Student attends seminar class three hours weekly and completes 80 clock hours of direct practice in an approved agency under the supervision of a field instructor appointed by the University. Prerequisite SWK 361 or permission of Instructor. (BA-S)

SWK 407/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)

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**CHILD PLACEMENT: PREVENTION AND PRACTICE**

After a brief historical perspective of child welfare services, this course considers the services which prevent placement, reviews legal, social and diagnostic considerations involved in placement decisions, and teaches skills in handling separation feelings of parents and children. Placement resources will be discussed, with emphasis on permanency planning and matching children and parental needs with programs and services. Prerequisite SWK 409 or permission of instructor. (BA-S)

SWK 461 6 Credits**SOCIAL WORK METHODS AND PRACTICE (3+8)**

Advanced social work methods with emphasis on knowledge and skill in the five areas introduced and developed in SWK 361 and 362 with particular emphasis on their application to professional practice in organization, community and policy development and change. Student attends seminar class three hours weekly and completes 80 clock hours of direct practice in an approved agency under the supervision of a field instructor appointed by the University. Prerequisite SWK 362 or permission of Instructor. (BA-S)

SWK 462 6 Credits**SOCIAL WORK METHODS AND PRACTICE (3+8)**

Integration of the five elements learned in previous social work methods courses which are necessary for professional social work practice. The aim of this final social work course is to incorporate the knowledge and requisite skills necessary to bring about planned social change with multiple client systems. Student attends seminar class three hours weekly and completes 80 clock hours of direct practice in an approved agency under the supervision of a field instructor appointed by the university. Prerequisite SWK 461 or permission of instructor. (BA-S)

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. 45-49, 54-55.
2. Complete a total of at least 38 credits in Sociology including the following courses.

Credits

88 The College of Arts and Sciences

Soc 101 — Introduction to Sociology	3
Soc 201 — Social Problems	3
Soc 202 — Social Structure	3
Soc 251 — Introduction to Statistics or AS 300 Elementary Statistics	3
Soc 302 — Social Psychology	3
Soc 309 — Urban Sociology	3
Soc 352 — Social Research Methods	3
Soc 363 — Social Stratification	3
Soc 402 — Theories of Sociology	3
Soc 405 — Social Change	3
Soc 492 — Senior Sociology Seminar	3

3. During the junior year, Sociology majors will select two tracks within the discipline with two courses, including one required course, taken from each of the chosen tracks. In place of these two track electives students may choose to pursue a practicum of 12 credits in Sociology (Soc 487 and 488) which covers two semesters of significant research or community work. Sociology track electives include the following three credit courses:

(a) Social Change and Community Development:

Required:

Soc 405 — Social Change

Elective:

Soc 222 — Community
 SWK 305 — Social Welfare Programs and Services
 SWK 306 — Social Welfare: Policies and Issues
 SWK 310 — Mental Health Programs and Services
 Econ 337 — Economic Development
 Psy 445 — Behavior Modification

(b) Family and Life Cycles:

Required:

Soc 242 — The Family

Elective:

Psy 245 — Child Development
 Soc/Psy 246 — Psych. of Adolescence
 SWK 342 — Human Behavior in the Social Environment
 Psy 345 — Advanced Child Development
 Soc 310 — Sociology of Aging
 SWK 409 — Introduction to Child Welfare
 SWK 410 — Child Placement: Prevention and Practice

(c) Deviant Behavior:

Required:

Soc 343 — Sociology of Deviant Behavior

Elective:

Just/Soc 203 — Juvenile Delinquency
 Just 210 — Principles of Correction
 Psy 338 — Abnormal Psychology
 Just 350 — Contemporary Correctional Issues
 Just 455 — Rural Justice
 Just 251 — Criminology

(d) Minorities and Ethnic Groups:

Required:

Soc 408 — American Minority Groups

Elective:

Ed 480 — Education of Culturally Different Youth
 Anth 200 — Natives of Alaska

Anth 326 — Arctic Ethnology
 Anth 335 — Native North Americans
 SWK 343 — Human Behavior

(e) Formal Organizations:

Required:

Soc/SWK 407 — Formal Organizations

Elective:

BA/PS 480 — Organizational Theory

(f) Social Psychology:

Required:

Soc/Psy 302 — Social Psychology

Elective:

Anth/Soc 324 — Culture and Personality
 Psy 406 — Personality Theories

(g) Demography and Ecology:

Required:

Soc 406 — Human Ecology

Elective:

Soc 307 — Population Problems
 Soc 404 — Environmental Sociology

(h) Practicum in Sociology:

Required: Independent study courses (Soc 487 and 488) covering two semesters during which students perform practicum or field research project, including the presentation of a senior thesis.

MINOR IN SOCIOLOGY

A minor in Sociology requires 18 credits in Sociology beyond Soc 101, and must include as required courses Soc 101, Soc 202, Soc 352 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. Multiple frameworks are used in understanding and predicting human behavior. (BA-S)

Soc 106/SWK 106

3 Credits

INTRODUCTION TO SOCIAL WELFARE (3+0)

Functions and development of modern social welfare and the distinctive features of the field, designed primarily to assist in the understanding of social welfare problems and services. Prerequisite: Soc 101. (BA-S)

Soc 201

3 Credits

SOCIAL PROBLEMS (3+0)

Problems of contemporary society; analysis of factors giving rise to them, and an attempt to explore remedial strategies. (BA-S)

Soc 202

3 Credits

SOCIAL STRUCTURE (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/Just 203

3 Credits

JUVENILE DELINQUENCY (3+0)

A conceptual approach to deviant and delinquent behavior, contributing social problems, adolescence as a subculture with emphasis on the juvenile code ordinance, and treatment procedure. Prerequisites: Soc 101. (BA-S)

Soc 222 **3 Credits**
COMMUNITY (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 246/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 302/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 101 and 102, and/or Soc 101. (BA-S)

Soc 307 **3 Credits**
POPULATION PROBLEMS (3+0)

The demographic structure of population and its implications. Prerequisite: Soc 101. (BA-S)

Soc 309 **3 Credits**
URBAN SOCIOLOGY (3+0)

Growth and development of urban communities with reference to migration patterns, differentiation of functions, ecological patterns of land use, social control, secondary group associations of metropolitan magnitude. Prerequisite: Soc 101. (BA-S)

Soc 310 **3 Credits**
SOCIOLOGY OF AGING (3+0)

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

Soc 324/Anth 324 **3 Credits**
CULTURE AND PERSONALITY (3+0)

An examination of cultural value systems and social institutions as they bear on the formation of personality. Types of behavior patterns relevant to personality formation. Prerequisite: Soc 101. (BA-S)

Soc 343 **3 Credits**
SOCIOLOGY OF DEVIANT BEHAVIOR (3+0)

A study of the social etiology of deviant behavior, both criminal and noncriminal with an emphasis on the nature of group interaction, and an examination of the institutions involved. Prerequisite: Soc 101. (BA-S)

Soc 347 **3 Credits**
SOCIOLOGY OF RELIGION (3+0)

The study of the historical development and functional significance of religion, values, and forms of institutions, groups and reform movements and their influence on social organization. Prerequisite: Soc 101. (BA-S)

Soc 352 **3 Credits**
SOCIAL RESEARCH METHODS (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 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/SWK 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 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)

Spanish**Span 101** **5 Credits****Span 102** **5 Credits****ELEMENTARY SPANISH I AND II (5+0) (5+0)**

Introduction to the Spanish language. Vocabulary and grammar. Practice in understanding, speaking, reading and writing Spanish. Oral practice is emphasized. Prerequisite for 102: Span 101. (BA-H)

Speech**Spch 111** **3 Credits****FUNDAMENTALS OF ORAL COMMUNICATION**

An introduction to the processes of interpersonal and group communication patterns, focusing on the effective elements of language and culture. Work is based on specific structural technique combined with creative delivery methods and the essentials of audience analysis, audience response and constructive listening.

Spch 241 **3 Credits****PUBLIC SPEAKING I**

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

Theater**BACHELOR OF ARTS**

1. Complete the General, Degree and College of Arts and Sciences requirements for the BA degree as shown on pp. 45-49; 54-55.

2. Complete the major requirements as follows:

Thr 111 — Introduction to Theater	3
Thr 121 — Acting I	3
Thr 141 — Stagecraft I	3
Thr 221 — Acting II	3
Thr 243 — Scenery and Lighting Design	3
Thr 257 — Costume Design and Construction I	3
Thr 311/ — Representative Plays I or II	3
Thr 312	3
Thr 331 — Directing I	3
Thr 411 History of Theater I	3
Thr 412 History of Theater II	3

Choose one of the following:

Thr 321 — Acting III	3
Thr 343 — Scene Design	3
Thr 357 — Costume Design and Construction II	3
Thr 435 — Directing II	3
Electives	7

Total credits for degree 40

3. For a minor in Theater, students need to complete

the following minimum requirements:

Thr 111 — Introduction to the Theater	3
Thr 121 — Acting I	3
Thr 141 — Stagecraft I	3
Thr 311/312 — Representative Plays I or II	3
Thr 411/412 — History of Theater I or II	3
Electives	3

Total credits for degree 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 111 **3 Credits****INTRODUCTION TO THE THEATER (3+0)**

Survey of theater with emphasis on dramatic form (BA-H).

Thr 121 **3 Credits****ACTING I (3+0)**

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 123 **1 Credit****BEGINNING MODERN JAZZ TECHNIQUE(0+3)**

Basic techniques of line, placement, relationship to space, and basic jazz dance vocabulary.

Thr 124 **1 Credit****DANCE FOR THE MUSICAL THEATER(0+3)**

Basic stage dance performance techniques. Styles of dance from early 1900's to the present.

Thr 141 **3 Credits****STAGECRAFT I (1+4)**

The beginning course in technical theater. Materials of scene construction painting and their use.

Thr 151 **2 Credits****MAKE-UP FOR THE THEATER (1+2)**

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 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 221 **3 Credits****ACTING II (3+0)**

Characterization techniques, emphasis on physical development for the actor through the study of bio-mechanics. Prerequisite: Thr 121.

Thr 243 **3 Credits****SCENERY AND LIGHTING DESIGN (4+1)**

Fundamental principles of design for the stage, including drafting, rendering, theory and practice. Prerequisite: Thr 141.

Thr 257 **3 Credits****COSTUME DESIGN AND CONSTRUCTION I (1+4)**

Basic principles of fabric selection and construction techniques for stage costumes. Fundamentals of costume design with emphasis on beginning technique and theory of design.

Thr 271 3 Credits**THEATER MANAGEMENT (3+0)**

Introduction to the economic and administrative aspects of theater, especially as they apply to professional, community and educational theater.

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 3 Credits**ACTING III (3+0)**

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 I (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 357 3 Credits**COSTUME DESIGN AND CONSTRUCTION II (1+4)**

Advanced work in costume design and construction. This course is a continuation of Thr 257. Prerequisites: Thr 257.

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 THEORY & CRITICISM (3+0)**

Study of Theories and criticisms of drama and theatrical art from Aristotle to the present. (BA-H)

Thr 421 3 Credits**ACTING IV (0+6)**

Advanced acting techniques, emphasis on scenes from Greek and Elizabethan plays; their analysis, study of characterization and performance techniques. Prerequisite: Thr 321.

Thr 435 3 Credits**DIRECTING II (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.

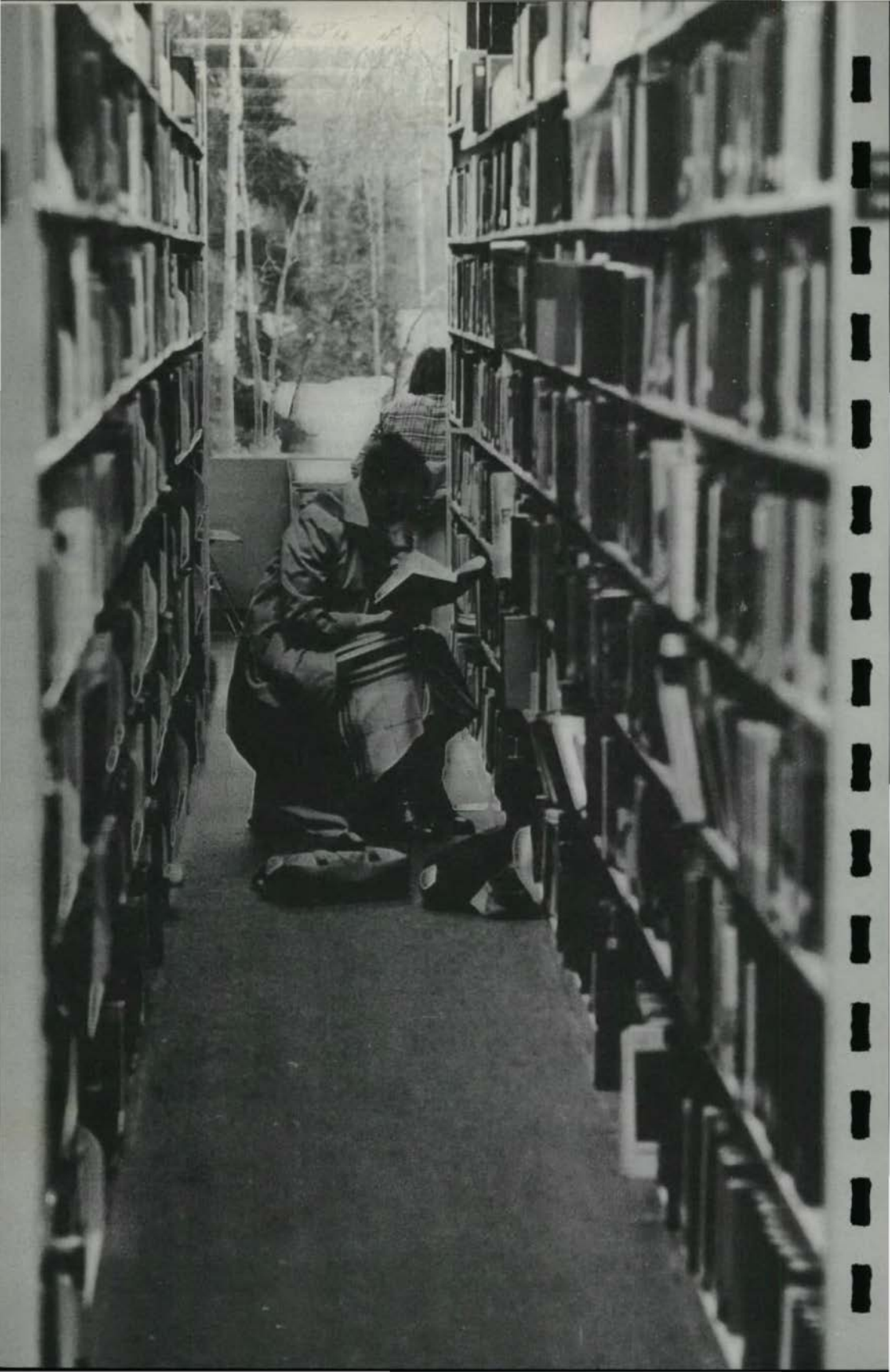
Thr 448 3 Credits**SCENE PAINTING (1+4)**

Techniques, styles and method of painting scenery for the theater. Prerequisite: Thr 141 or permission of instructor.

Thr 449 3 Credits**THEATER ARCHITECTURE AND DESIGN (3+0)**

Fundamental principles of designing, constructing and equipping the modern theater or auditorium. Prerequisite: Senior standing or permission of instructor.





SCHOOL OF BUSINESS AND PUBLIC ADMINISTRATION

Faculty

Dean: H. Richard Hartzler

Accounting

Professor: Harold Nix

Associate Professors: Richard Maschmeyer,
Henry Wichmann

Business Administration

Professors: Omer Carey, Hayden Green

Associate Professors: Donald Marx, Robert
McWilliams

Assistant Professors: James Earle, Earl Naumann

Economics

Associate Professor: Brad Tuck

Assistant Professor: P. J. Hill

Planning

Professor: Lidia Selkregg

Public Administration

Professors: Garth N. Jones, Lidia Selkregg

Associate Professor: Rick Ender

Assistant Professors: Steven Aufrecht, Choon Kim

The full time faculty is supplemented by many part-time lecturers from business and government who bring realism and a wealth of experience into the classroom.

School of Business and Public Administration

The School of Business and Public Administration is located in the State's commercial, financial and cultural center, hub of international travel and trade. The proximity of the University to the city center allows the School of Business and Public Administration faculty and students to work closely with business organizations and governmental units. Case

studies, research and off-campus education are facilitated by the willingness of the community to assist faculty and students in studying business and governmental institutions and activities.

Undergraduate Degrees:

Bachelor of Business Administration

Accounting
Banking
Economics
Finance
Labor Relations

94 School of Business and Public Administration

Management
Marketing
Real Estate
Bachelor of Arts
Economics
Bachelor of Technology

Acct 201	4
Acct 202 (not for Acct. majors. Acct. majors take Acct 260)	3
Math 270	3
Math 272	3
	41

Graduate Degrees:

Master of Business Administration
Master of Public Administration
Master of Science
Planning
Real Estate

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

Certificate Programs

Planning

English Competence

The School of Business and Public Administration requires that all degree candidates demonstrate competence in English. Competence may be judged by student written coursework or by examination.

Business Administration

BACHELOR OF BUSINESS ADMINISTRATION

The Bachelor of Business Administration (BBA) is a professional degree offered through the School of Business and Public Administration. It is designed to prepare students to pursue meaningful and rewarding careers in management. The curriculum for the BBA degree is management oriented, rather than highly specialized, and emphasizes concepts that are relevant to both small and large firms and both the public and private sectors.

The accounting major 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.

1. Complete the General University requirements as listed on page 45-49.
2. GENERAL DEGREE REQUIREMENTS

Credits

BA 110 — Computer Concepts in Business	3
Engl 111	3
Speech 111	3
Social Science (Anthropology, Sociology or Psychology)	6
Natural Science (must include 1 lab)	7
Econ 121	3
Econ 122	3

(NOTE: The word "credits" means semester credit hours)

3. CORE REQUIREMENTS FOR ALL MAJORS

Credits

English 311 — Advanced Exposition	3
BA 325 — Financial Management	3
BA 331 — Business Law I	3
BA 335 — Management Principles and Practices	3
BA 343 — Principles of Marketing	3
BA 373 — Elementary Statistics for Business & Economics	3
BA 377 — Operations Management	3
BA 462 — Administrative Policy	3
BA 488 — Social Issues in Business	3
	27

MAJOR REQUIREMENTS

Credits

Accounting Major

Acct 301 — Intermediate Accounting II	3
Acct 302 — Intermediate Accounting III	3
Acct 310 — Income Tax	3
Acct 342 — Managerial Cost Accounting	3
Acct 404 — Advanced Cost Accounting and Controlling	3
Acct 401 — Advanced Accounting	3
Acct 452 — Auditing	3
BA 332 — Business Law II	3
Upper-Division Economics Electives	6

30

Electives: Upper-division credits

At least 63 of the 130 credits required for a baccalaureate degree 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 the Bachelor of Business Administration Degree.

Banking Major

BA 332 Business Law II	3
ECON 350 Money and Banking	3
BA 361 Personnel Adm	3
BA 426 Financial Markets and Institutions	3
BA 428 Commercial Bank Management	3
BA 450 Investment Management	3
BA 480 Organizational Theory	3

21

Electives: Upper Division Electives (9 must be in ACCT, BA, and ECON)

At least 63 of the 130 credits required for a baccalaureate degree 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 the Bachelor of Business Administration degree.

Economics Major

Econ 321 — Intermediate Microeconomics.....	3
Econ 324 — Intermediate Macroeconomics.....	3
Econ 350 — Money and Banking.....	3
Econ 429 — Business Forecasting.....	3
	12

Upper division elective courses to total 24 credits (12 must be in Economics).

At least 63 of the 130 credits required for a baccalaureate degree 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 the Bachelor of Business Administration degree.

Finance Major

Acct 260 — Intermediate Accounting.....	3
Acct 301, 302 — Intermediate Accounting II & III.....	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
	24
Electives: Upper division.....	12

Labor Relations Major

BA 361 — Personnel Management.....	3
BA 461 — Labor-Management Relations.....	3
BA 464 — Advanced Personnel.....	3
BA 469 — Labor Relations Law and Public Policy.....	3
BA 480 — Organizational Theory.....	3
BA 489 — Corporate Management and Planning.....	3
Econ 421 — Labor Economics.....	3
Econ 429 — Business Forecasting or Econ 421 — Labor Economics.....	3
	24

Elective credits: 12 credits in upper division courses, at least 63 of the 130 credits required for a baccalaureate degree 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 the Bachelor of Business Administration degree.

Management Major

	Credits
BA 359 — Regulation of Industry.....	3
BA 361 — Personnel Management.....	3
BA 376 — Management Info Systems.....	3
BA 461 — Labor Mgmt. Relations.....	3
BA 480 — Organizational Theory.....	3
BA 489 — Corp. Mgmt. & Planning.....	3
Econ 429 — Business Forecasting.....	3
	21

Electives: 15 upper-division credits. At least 63 of the 130 credits required for a baccalaureate degree 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 the Bachelor of Business Administration degree.

Marketing Major

	Credits
BA 310 — Consumer Behavior.....	3
BA 327 — Product Promotion Strategies.....	3
BA 379 — Inter. Marketing Mgmt.....	3
BA 441 — Marketing Problems.....	3
BA 445 — Marketing Research.....	3
BA 480 — Organizational Theory.....	3
Econ 429 — Business Forecasting.....	3
	21

Electives: 15 upper-division credits. At least 63 of the 130 credits required for a baccalaureate degree 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 the Bachelor of Business Administration degree.

Real Estate Major

BA 306 — Real Estate Fundamentals.....	3
BA 316 — Real Estate Brokerage.....	3
BA 322 — Real Estate Law.....	3
BA 324 — Real Estate Financing.....	3
BA 323 — Real Estate Appraising.....	3
BA 410 — Real Estate Investment Analysis.....	3
BA 448 — Property Management.....	3
	21

Elective hours: 15 credits in upper division courses. At least 63 of the 130 credits required for a baccalaureate degree 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 the Bachelor of Business Administration degree.

MINORS

Accounting	Credits
Acct 201 — Principles of Financial Accounting.....	4
Acct 202 — Principles of Managerial Accounting.....	3
Any 9 upper-division credits in accounting.	—
	16

Business

BA 325 — Financial Management.....	3
BA 335 — Mgmt. Principles and Practices.....	3
BA 343 — Principles of Marketing.....	3
BA 462 — Administrative Policy.....	3
BA 480 — Organizational Theory.....	3
BA 489 — Corp. Mgmt. & Planning.....	3
	15

(Prerequisites for the above courses must be satisfied)

Real Estate

Any 15 credit hours in Real Estate at 300 or 400 level

Labor Relations

BA 461 — Labor-Management Relations.....	3
BA 464 — Advanced Personnel.....	3
BA 469 — Labor Relations Law and Public Policy.....	3
BA 480 — Organization Theory.....	3
BA 489 — Corp. Mgmt. & Planning.....	3
	15

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 45-49.
2. Complete major requirements as set forth below:

Credits

Econ 121, 122 — Principles of Economics I & II....	6
Econ 321 — Intermediate Microeconomics	3
Econ 324 — Intermediate Macroeconomics.....	3
Econ 350 — Money and Banking	3
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 272 or equivalent competency is required.

A minimum of 48 upper division credit hours is required.

MINOR

Econ 121, 122 and 12 credits of upper division Economic subjects to include Econ 321 and 324.

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

1. Complete all requirements for an associate degree in a technical specialty.
2. Complete 12 credits in one of the following areas, 6 credits in a second area, and 3 credits in each of two areas. (Courses taken as part of the Associate Degree program are acceptable.)24

Areas:

(6 credits of social sciences are required.)

- Social Sciences
- Humanities
- Natural Sciences
- Mathematical Sciences (Math 105 and
CS 105 or BA 110 required)

3. Upper division credits in Technical specialty 0-12
credits
4. Communication (may have been taken as part of
the Associate degree) :

Credits

English 111 and English 211, 213, or 311	6
Oral Communication.....	3

5. Major Complementary Area (Management)

Credits

Acct 201 — Principles of Financial Acct.....	4
Acct 202 — Principles of Managerial Acct	3
Econ 121 — Principles of Economics I	3
Econ 122 — Principles of Economics II	3
Math 270 — Applied Finite Math for the Managerial Sciences.....	3
Math 272 — Calculus for the Managerial Sciences..	3
BA 325 — Financial Management	3
BA 331 — Business Law I	3
BA 332 — Business Law II	3
BA 335 — Management Principles and Practices ..	3
BA 343 — Principles of Marketing.....	3
BA 373 — Elem. Stat. for Bus. & Econ.	3
BA 377 — Operations Management.....	3
BA 462 — Administrative Policy	3
BA 480 — Organizational Theory	3
BA 488 — Social Issues in Business.....	3

49

Upper division electives in the field of Business, Accounting, Economics

—

Total 52

Electives to Total..... 130

All credits must be 100 level or above. A minimum of 65 credits must be earned beyond those needed to meet requirements of an associate degree. At least 48 credits must be at the 300 level or above.

Master of Business Administration

1. This degree is designed for the individual who desires to pursue a professional career in management or one of its subfields. A minimum of 36 credit hours is required for this program. The basic program consists of three major course blocks:
 - a. Basic core courses (21 credits)
 - b. Emphasis course group (9 credits)
 - c. Two-course integrative block (6 credits)
2. After completing the basic core courses, the student must pass a written qualifying examination. The integrative block at the end of the program requires that the student develop and complete a practical project in general administration.
3. Students applying for admission to the MBA program must have taken the Graduate Management Admission Test (GMAT — formerly ATGSB) and have scores submitted to the University, together with certified transcripts from all colleges and universities attended. In general, the candidate should have a total of at least 950 points based on the formula: 200 times the overall GPA plus the GMAT score (GPA based on 4.0 system); or at least 1000 points based on the formula: 200 times the upper-division GPA plus the GMAT score. A limited number of students who do not meet the above requirements may be considered

for admission on an individual basis by presenting appropriate evidence of potential for graduate work. This may include relevant managerial experience or previous graduate study in other programs.

4. The content of the core courses assumes an undergraduate business background or equivalent level of knowledge. A student entering the program is expected to have introductory-level knowledge of accounting, finance, marketing, organizational behavior and personnel, micro and macroeconomics, elementary statistics, quantitative analysis, business law and computer programming. Students deficient in one or more of these areas are expected to make up these deficiencies by either completing equivalent undergraduate courses, or special graduate review courses.
5. A student must establish competency in mathematics, statistics and accounting as a prerequisite for any or all graduate quantitative or accounting courses. Prerequisite competency in these areas can be demonstrated by appropriate undergraduate course work, or by completing the special accounting and quantitative review courses for graduate students (Acct 505 and BA 501).
6. At the time of admission to the Master of Business Administration program, each student will be assigned a graduate advisor. The advisor will assist the student in developing a program, identifying deficiencies, and suggesting appropriate methods for correcting these deficiencies.
7. Upon approval of the student's advisor and by completing additional course work (minimum of 21 credit hours) a MBA student may receive both the MBA and MPA degrees.
8. Core Courses:

Credits

BA 602 — Applied Statistics	3
BA 610 — Organizational Theory and Behavior	3
BA 612 — Management Science	3
Econ 625 — Economics and Public Policy	3
Acct 650 — Management Accounting Seminar	3
BA 680 — Seminar in Finance	3
BA 630 — Seminar in Marketing	3
	21

9. Emphasis areas:
Specific emphasis areas depends on availability of faculty.
The emphasis area (9 or more credits) allows a student, subject to the advisor's approval, to choose courses which meet individual interests or needs. Optional courses are offered in the areas of general management, finance, marketing, real estate, public administration, labor-management relations and accounting. Course offerings differ from semester to semester.
10. Qualifying Examination
Upon successful completion of the core courses, the student is required to pass a written qualifying exami-

nation. The examination will test the student's knowledge of core material. All students, including those exempted from some specific core courses, will be expected to pass all parts of the examination. Students who have not passed the qualifying examination will not be eligible to enroll in the final integrative block. Students may, however, take emphasis courses before taking the qualifying examination.

11. Every MBA student is required to complete a two-semester integrative block of courses (BA 659 A and B) designed to provide a theoretical and practical perspective in the application of functional concepts to problems of general management. Students must have passed the qualifying examination before enrolling in this block. Normally the course block will be taken in the last two semesters of a student's program.
12. The above program description outlines minimum requirements. The faculty reserves the right, where warranted by an evaluation of a student's progress and apparent knowledge, to require additional course work or other appropriate preparation in order to insure that the degree recipient possesses adequate professional skills and capabilities. This includes the ability to reason and communicate effectively — both verbally and quantitatively.

Master of Public Administration

1. This degree is designed for the individual who wants to pursue a professional career in public administration. A minimum of 36 credit hours is required for this program. The basic program consists of three major course blocks:
 - a. Basic core courses (21 credits)
 - b. Emphasis course group (9 credits)
 - c. Two-course integrative block or thesis (6 credits)
2. After completing the basic core courses, the student must pass a written qualifying examination. The integrative course block at the end of the program requires that the student develop and complete a practical project in administration. As an alternative a student may complete a master's thesis by researching some approved topic.
3. Students applying for admission to the MPA program must have taken the Graduate Records Examination (GRE) or the Graduate Management Admission Test (GMAT) and have scores submitted to the University, together with certified transcripts from all previous colleges and universities attended.
4. A student entering the MPA program is expected to have introductory-level knowledge of American government, elementary statistics, economics, public administration and accounting. Students deficient in one or more of these areas must make up these deficiencies by either completing equivalent undergraduate courses, or special graduate review courses.
5. At the time of admission to the Master of Public Administration program, each student will be assigned a graduate advisor. The advisor will assist the student in developing a program, identifying defi-

ciencies, and suggesting appropriate methods for correcting these deficiencies.

6. 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.

7. MPA Core Courses:

PAdm 601 — Public Policy and Administration

PAdm 603 — Management Analysis

PAdm 604 — Research Methods in Administration

Prerequisite:

BA 501 — Introduction to Quantitative Analysis

PAdm 610 — Organizational Theory and Behavior

PAdm 611 — Administration of Financial Resources

Prerequisite:

PS 430 — Managerial Accounting for Public Administrators or ACCT 505 — Intensive Review of Accounting Principles

PAdm 618 — Accountability, Law and the Administrative Process

Prerequisite:

ECON 501 — Intensive Review of Economics, or ECON 121 and 122 — Principles of Economics I and II

General Prerequisites:

PS 101 — Introduction to American Government

PS 301 — Fundamentals of Public Administration

With the School's approval, prerequisite courses may be taken concurrently with the graduate curriculum during the student's first two semesters of matriculation. Graduate credit will not be allowed for prerequisite courses.

ECON 625 — Economics and Public Policy

8. 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.

9. Emphasis Area

Specific emphasis areas depends on availability of faculty.

Students must take 9 credit hours of electives. They may choose to specialize in one subject area such as planning (also a certificate program). To develop this specialization, students may petition their advisor to take relevant courses in other divisions.

10. 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). The thesis stresses a research approach while the integrative block is designed to provide a theoretical and practi-

cal 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.

11. The above program description outlines *minimum* requirements.

COOPERATIVE DOCTORAL PROGRAM IN PUBLIC ADMINISTRATION WITH UNIVERSITY OF SOUTHERN CALIFORNIA

In cooperation with the School of Public Administration of the University of Southern California, a doctoral program in public administration is available where part of the candidate's academic degree requirements may be completed in the University of Alaska, Anchorage School of Business and Public Administration. PAdm 689 applies to this program, and is listed in the course descriptions section.

Further information about this cooperative doctoral program may be obtained from the School of Business and Public Administration graduate program coordinator.

Master of Science Degrees

The Master of Business Administration (MBA) and the Master of Public Administration (MPA) degrees are degrees stressing a high level of competence in general management for the private and public sectors. The Master of Science degrees are designed for those individuals who desire to develop greater expertise in a specialty area of management. Two options are available: Planning and Real Estate. Admissions requirements are in general the same as for the MBA and MPA degrees and scores on the GMAT or the GRE national examinations are required as part of the credentials submitted for admission. Students interested in this degree under any option should consult the School of Business and Public Administration for general counseling 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 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 theoretic-

cal 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's degree is required and student's educational background will be considered on an individual basis. These educational backgrounds must show a balance between physical, social, and economic courses to insure that each student can follow, understand, and perform at the graduate level. When a student's background is considered deficient in some needed subjects, a requirement will be made either to take courses offered at the undergraduate level or to take a proficiency exam on the subject. An advisory committee will review the educational backgrounds, evaluate courses offered at the Anchorage campus, and determine the procedures to be followed.
3. At the time of admission to the Master of Science in Planning program, each student will be assigned a graduate committee of three faculty members. The committee will assist in preparation of a thesis prior to completion of the master's degree.
4. The Master of Science Degree in Planning will comprise 54 semester hours of credit: 39 classroom hours, 6 hours earned through internship, and 9 hours earned by preparation and defense of a thesis. Practical experience will be obtained through student participation in citizen commissions attached to federal, state and local planning agencies, along with supervised internships and related professional experiences.

Coursework:

Students will take the following required courses (33 cr. hrs.)

	Credits
PS 430 — Managerial Accounting for Public Administrators	3
PAdm 604 — Research Methods in Administration	3
Econ 626 — Economics for Planners	3
PAdm 634 — Resource Policy Administration	3
BA 640 — Adv. Appraising and Real Estate Feasibility Analysis	3
PI 650A — Comprehensive Planning and Applied Science	3
PI 650B — Community/Regional Planning I	3
PI 650C — Community/Regional Planning II	3
PI 661 — Social Environment of Planning	3
PI 662 — Legal Issues in Planning	3
PI 663 — Design Criteria and Cost Consideration in Planning	3

Mini-courses/Seminars:

Students will take 6 credits chosen from the following one unit mini-courses or others as developed (6 hours).

	Credits
Land Laws	1
Social Impact of Land Development	1
Land Economics	1
Citizen Organizations and Socio-Political Structures — Citizen Input	1
Urban Economics	1
Source of Program Funding and Preparation of Grant Proposals	1
Housing — Analysis of Needs, Availability, Design and Financing	1
Cities in History — New Towns	1
Writing of Reports for Public and Administration Use — Research, Editing, Graphics and Photography	1

Internship/Special Studies/Practical Experience:

Specialization in specific areas may be obtained either 1) by credit acquired through internship in an approved planning agency, 2) by taking courses, as approved by the advisory committee, in fields offered by the graduate Schools of Public Administration, Arts and Sciences, or Engineering, or 3) by selecting independent studies with the advice of the graduate school staff (6 hours).

Practical experience will be obtained by student participation in the activities of citizen commissions existing within the local government and state and federal agencies (Planning and Zoning Commission; OEDP Committee; Planning Board; Coastal Zone Management Council; Public Forum; Community Councils; School Budget Advisory Committee, etc.).

Thesis:

Each student will undertake a major research effort resulting in the preparation of a thesis for a topic to be selected either in community or regional planning. A three member faculty advisory committee will evaluate the adequacy of the thesis upon its completion. One faculty advisor will assist the student during development of the thesis (research, outline, source of data) (9 hours).

Each student must pass successfully an oral examination on the topic of the thesis and its preparation and defend proposed recommendations. Questions will be asked also on major planning areas covered in the program. The examination will be conducted by a three member faculty committee and will be required prior to final approval of the thesis.

MASTER OF SCIENCE

With a Major in Real Estate

The Master of Science in Real Estate is recommended for individuals who hold a Bachelor's degree, have met the entrance requirements for graduate students in business and have completed the required prerequisites for advanced study in real estate. The curriculum is designed for those students who desire to acquire advanced analytical capabilities. Special emphasis is focused on computer technology, market forecasting, advanced investment and real estate tax analysis, financing, marketing, management, economics, and planning.

A broad offering in specialized areas of real estate is provided using one (1) unit modular courses. Some of these

courses are offered by the University in conjunction with professional real estate associations, while others are offered as part of the regular University curriculum.

Prerequisites for Master of Science in Real Estate

The content of the core courses assumes an undergraduate business background or equivalent level of knowledge. A student entering the program is expected to have introductory level knowledge of accounting, finance, marketing, organizational behavior and personnel, micro and macroeconomics, elementary statistics, quantitative analysis, business law and computer programming. Students deficient in one or more of these areas are expected to make up these deficiencies by either completing equivalent undergraduate courses, or special graduate review courses.

A student must establish competency in mathematics, statistics and accounting as a prerequisite for any or all graduate quantitative or accounting courses. Prerequisite competency in these areas can be demonstrated by appropriate undergraduate course work, or by completing the special accounting and quantitative review courses for graduate students (ACCT 505 and BA 501).

BA 322 — Real Estate Law

BA 323 — Real Estate Appraising

BA 324 — Real Estate Finance

BA 410 — Real Estate Investment Analysis

BA 448 — Property Management

or equivalent and approval of coordinator of real estate program.

Students who do not have required statistics and accounting courses may take intensive review courses to prepare themselves for graduate courses in these two subject matter areas.

Required Graduate Courses:

Credits

BA 640 — Adv. Appraising and Real Estate Feasibility Analysis	3
BA 644 — Advanced Real Estate Taxation and Investment Analysis	3
BA/PAdm 602 — Applied Statistics	3
BA 610 — Organizational Theory and Behavior	3
BA 612 — Management Science	3
ECON 625 — Economics and Public Policy	3
ACCT 650 — Management Accounting Seminar	3
BA 680 — Seminar in Finance	3
BA 630 — Seminar in Marketing	3
PL 650A — Comprehensive Planning and Applied Science	3
BA/PAdm 659A — Admin. Policy Seminar	3
Demonstration Report and Qualifying Exam	3

Total Credits 36

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.

Certificate Programs

PLANNING CERTIFICATE

This certificate is intended to increase understanding of the planning function of individual employers in local, regional, state, and federal governments. Persons engaged in certain kinds of private industries associated with resource development and management will find it useful as well. It is especially designed to enhance the abilities of persons engaged in urban, regional, resource, and environmental planning and such related areas as architecture, landscape architecture, engineering, community and rural development, general public administration, and real estate.

The certificate is designed for professionals desirous to expand their knowledge in the fields of planning, applied sciences, and programming and scheduling of capital improvements, along with acquiring or increasing knowledge of:

1. The physical, social, economic and political context in which planning takes place.
2. The complexity of the planning process of various state, federal and local agencies and departments.
3. The importance of citizen participation in the planning cycle.
4. Methods of evaluation of public needs and development of systems and schedules for delivery of services.
5. Knowledge of the administrative/management processes.

Persons admitted to this certificate program may pursue their academic work in the following ways: 1) on either an undergraduate or graduate level, 2) within a degree program undergraduate or graduate, or 3) solely on a non-degree academic basis.

Application to the Professional Certificate Program in Planning will follow the same procedure as application to the Masters in Business and Public Administration program, except that graduate testing is not required.

Specific certificate requirements may be obtained from the School of Business and Public Administration. Individual programs will be developed with the academic advisor.

Program Content and Standards

1. *Prerequisites:* The candidate for the Planning certificate must have the following prerequisite credits or show equivalent knowledge and expertise therein:
 - a. *Basic statistics course* (BA 373 — *Elementary Statistics for Business and Economics*. Descriptive statistics, probability, Bayesian inference, statistical inference.

- b. *Public Policy and Administration* (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* (PI 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* (Econ 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)
 - PI 650A — Comprehensive Planning and Applied Science
 - PI 650B — Community/Regional Planning I
 - PI 650C — Community/Regional Planning II
 - b. *Real Estate:* (3 semester credit hours required)
 - BA 640 — Advanced Appraising and Real Estate Feasibility
 - c. Electives totaling six credit hours from the following:
 - (1) *Natural Resources:* (3 semester hours)
 - PAdm 634 — Resource Policy Administration, or an equivalent course in the field of natural resources.
 - (2) *Research Methods:* (3 semester hours)
 - PAdm 604 — Research Methods in Administration. If this course has been covered at graduate or undergraduate level, another 3 credit elective course must be substituted after consultation with graduate advisor.
 - (3) *Seminar — Topics in Planning* (1 semester credit hour each)
 - PI 692 — 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.

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 260 3 Credits

INTERMEDIATE ACCOUNTING I (3+0)

Accounting processes, theory, principles of financial statements with in depth study of present value, cash, marketable securities, receivables, and current liabilities. Prerequisite: Acct 201 or equivalent.

Acct 301 3 Credits

INTERMEDIATE ACCOUNTING II (3+0)

Inventories, Property-Plant-Equipment, Intangible assets and accounting for stockholder's equity. Prerequisite: Acct 260

Acct 302 3 Credits

INTERMEDIATE ACCOUNTING III (3+0)

Long-term investments, bonds payable, pension costs, leases, accounting changes and analysis of financial statements. Prerequisite: Acct 301

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, or permission of instructor.

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 201.

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 201.

Acct 401 3 Credits

ADVANCED ACCOUNTING (3+0)

A study of accounting for partnerships, business combinations, parent- subsidiary consolidated financial statements, and selected topics, such as branch accounting, foreign exchange accounting, installment sales, consignment accounting, fiduciary accounting, fund accounting, joint-ventures, real estate and franchise accounting. Prerequisite: Acct 302.

Acct 402**3 Credits****ACCOUNTING FOR NOT-FOR-PROFIT ORGANIZATIONS (3+0)**

This course covers the principles and practices of not-for-profit accounting for municipalities, school districts, hospitals, colleges and universities, and other non-profit entities in accordance with the latest pronouncements. Prerequisite: Acct 201 or permission of instructor.

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 (3+0)**

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 201, 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 201.

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 302.

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**6 Credits****CONTEMPORARY ACCOUNTING PROBLEMS (6+0)**

A course designed to cover accounting, statistical and ethical topics either not covered or covered superficially in the program requirements leading to the BBA-Accounting degree, and to develop the additional proficiency necessary to meet entry level requirements for a career as a public accountant. Prerequisites: Advanced standing in accounting and permission of instructor.

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. 302.

Acct 505**3 Credits****INTENSIVE REVIEW OF ACCOUNTING PRINCIPLES (3+0)**

Accounting concepts and techniques essential to administration of business and public enterprise and periodic determination of income and financial position. Basic corporate accounting. This course is

designed for MBA/MPA candidates with non-business administration undergraduate degrees. This course may not count as part of the 36-credit hour minimum degree requirement.

Acct 615**3 Credits****TAX PLANNING AND RESEARCH (3+0)**

Tax planning for individuals, business organizations, estates, and trusts is explored by a study of the taxes which affect such plans. Special emphasis will be placed on planning for business organizations. Prerequisites: Acct 310, 403.

Acct 650**3 Credits****MANAGEMENT ACCOUNTING SEMINAR (3+0)**

A basic graduate course for non-accounting majors. The subjects covered deal with the assumptions and concepts underlying financial statements, the analysis and uses of financial statements and the uses of cost accounting for decisions and control. Prerequisite: Acct 201 and 202, or Acct 505.

Business Administration**BA 110****3 Credits****COMPUTER CONCEPTS IN BUSINESS (3+0)**

An introductory course in computer concepts and FORTRAN programming designed to prepare the student to utilize a portion of the computer resources available at UAA. Topics include machine organization, program logic, flowcharting, programming in the FORTRAN language, TSS and batch processing, and Honeywell series 6000/600 TSS library programs. Actual hands-on experience with the computer is obtained by designing, building and executing simple FORTRAN programs.

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 306**3 Credits****REAL ESTATE FUNDAMENTALS (PRINCIPLES) (3+0)**

Principles of real estate and urban land economics and governmental aspects of real property ownership and control.

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 BROKERAGE (3+0)**

This is a course in managing the real estate brokerage firm. Topics covered are real estate buyer behavior, market analysis, image development, market information systems, and marketing strategies. The course emphasizes the management of personnel, compensation programs, and other management topics.

BA 322**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 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.

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 (3+0)

Intensive analysis of the methods of financial planning and control, asset management, and other functions performed by the financial executive. Prerequisite: Acct 201, 202, Econ 121, 122. Statistics recommended but not required. Acct. majors take Acct. 260 instead of Acct 202.

BA 327 3 Credits
PRODUCT PROMOTION STRATEGIES (3+0)

Analysis of alternative persuasive communication strategies designed to promote consumer and/or industrial products or ideas. Topics include determination of communication objectives, selection of media, brand positioning, media buying, campaign implementation and measurement of promotion effectiveness. Prerequisite: BA 343 recommended.

BA 331/JUST 331 3 Credits
BUSINESS LAW I (3+0)

A survey of basic institutions, litigation, judicial process, dispute resolution and preventive law; substantive law of torts, agency, contracts and the uniform commercial code including sales, negotiable instruments and secured transactions.

BA 332/JUST 332 3 Credits
BUSINESS LAW II (3+0)

The law of business organizations, business crimes, employment, landlord-tenant, and real property.

BA 335 3 Credits
MANAGEMENT PRINCIPLES AND PRACTICES (3+0)

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. Junior standing or permission of instructor.

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. Prerequisites: Acct 201, 202, (Acct majors take Acct 260 instead of Acct 202), Econ 121 and 122

BA 359/PS 359 3 Credits
REGULATION OF INDUSTRY (3+0)

Effects of government regulation, economic policy and executive policy on private and public enterprise. Prerequisites: Econ 121 and 122 (BA-S)

BA 361/PS 361 3 Credits
PERSONNEL MANAGEMENT (3+0)

Personnel practice in industry; analysis of labor-management problems; methods of administrations of recruiting, selecting, training, and compensating employees, labor laws and their applications. Prerequisites: Econ 121, 122 and BA 335. (BA-S)

BA 373 3 Credits
ELEMENTARY STATISTICS for BUSINESS and ECONOMICS (3+0)

Descriptive statistics, probability, Bayesian inference, statistical inference. Prerequisites: Math 270 and Math 272 or equivalent.

BA 376 3 Credits
MANAGEMENT INFORMATION SYSTEMS (3+0)

Theory, analysis, and design of information systems for management planning and control. Prerequisites: Math 270 and 272 or permission of instructor.

BA 377 3 Credits
OPERATIONS MANAGEMENT (3+0)

Management of the operations/production system, with emphasis on quantitative analysis. Characteristics of systems, types of production systems, forecasting, planning and scheduling work, facility design and location, and selected topics in operations research. Prerequisite: BA 373.

BA 379 3 Credits
INTERMEDIATE MARKETING MANAGEMENT (3+0)

Analysis of product, price, promotion and distribution decisions from a strategic marketing planning perspective. Emphasis is placed on marketing decision models applied to profit and non-profit organizations. Prerequisite: BA 343.

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 426 3 Credits
FINANCIAL MARKETS AND INSTITUTIONS (3+0)

An examination of the economics and performances of the financial markets. Financial institutions, capital markets and money markets are studied, including the international dimensions. Prerequisites: BA 325, Econ 350.

BA 428 3 Credits
COMMERCIAL BANK MANAGEMENT (3+0)

Review of the environment in which banks operate and the study of management policies for successful bank operation. Balance sheet management forms the core of the course. Recent national and international trends are emphasized. Prerequisite: BA 325, 335, 343.

BA 432/PS 432/JPC 432 4 Credits
RESEARCH METHODS (3+0)

Course will include developing competence as a consumer of research as well as methodology and techniques of empirical research: scientific methods, design of research, sampling, use of statistics, methods of data collection and analysis, including the use of computer data processing. Students will design and carry out a complete basic empirical study.

BA 441 3 Credits
MARKETING PROBLEMS (3+0)

Approaches and problems of marketing decision-making under conditions of uncertainty. Planning and execution of a complete marketing program. The role of the marketplace development of marketing plans; product and product line decisions; pricing decisions; channels of distribution; personal selling and advertising. Prerequisite: BA 343 or BA 373 or permission of instructor.

- BA 445** **3 Credits**
MARKETING RESEARCH (3+0)
 Influence of marketing research on the decision-making process; effect on the executive who must use it; uses and misuses. Emphasis on the cost versus the value of information for decision-making. Problem formulation, exploratory research, research design, basic observational and sampling requirements, data analysis, interpretation, and reporting. Research projects conducted on actual marketing problems. Prerequisite: BA 343 or BA 373 or permission of instructor.
- BA 448** **3 Credits**
PROPERTY MANAGEMENT (3+0)
 This course introduces property management as a specialized activity. Emphasis is placed on managing residential, commercial, industrial, multi-residential, and special-purpose property. The general topics covered are real estate management process, the marketing process and the administrative process as it pertains to property management.
- BA 450** **3 Credits**
INVESTMENT MANAGEMENT (3+0)
 Study of security analysis and money market instruments, with particular emphasis on personal investing. Technical analysis, capital markets and current theory are reviewed. Application, rather than theory, is emphasized. Prerequisite: BA 325 or permission of instructor.
- BA 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 335, BA 343, BA 373, and BA 377.
- BA 464** **3 Credits**
ADVANCED PERSONNEL (3+0)
 The course concerns the management of relations between the organization and its personnel; building and maintaining a productive work force and providing job satisfaction. Specific topics include: Compensation Management, Selection and Placement, Training and Performance Appraisal.
- BA 469** **3 Credits**
LABOR RELATIONS LAW AND PUBLIC POLICY (3+0)
 The course stresses the institutional framework in which the government structure of collective bargaining is cast. The course deals with major trends in the law of collective bargaining, the reasons for these trends, and their consequences on the overall functioning of collective bargaining.
- BA 480/PS 480** **3 Credits**
ORGANIZATIONAL THEORY (3+0)
 Literature of organizational theory; emphasis on theoretical concepts, org. design, dynamics of formal and informal groups, communication in leadership, org. development, org. effectiveness, social science research techniques. Prerequisites: Junior or Senior standing. BA 335 or permission of instructor.
- 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 501** **3 Credits**
INTRODUCTION TO QUANTITATIVE ANALYSIS (3+0)
 Basic concepts of algebra, statistics, operations research, and computing relevant to managerial analysis. This course is intended as an introduction or review for students starting masters programs with insufficient under-graduate preparation in the quantitative area. Course will be graded on P/NP basis, credit not applicable to minimum credit hour requirements of any masters degree.
- 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; BA/PAdm 600A, B, and review sequence recommended.
- BA 608** **3 Credits**
LEGAL ENVIRONMENT OF BUSINESS (3+0)
 The impact of law on business, public administration, and professional services. Various topics will be covered including legal processes, government regulations, labor-management relations, protection of consumers and debtors, and the law of torts. This course provides required prerequisite knowledge of law for MBA students, and may not count as meeting the minimum 36 credit requirement for the MBA degree.
- BA 610/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 612** **3 Credits**
MANAGEMENT SCIENCE (3+0)
 A survey of quantitative approaches to decision making. Philosophy and methodology of operations research. Conceptual models include general systems theory, cybernetics, and decision theory. Emphasis on linear programming and simulation as broad alternative modeling methods. Prerequisite: BA/PAdm 602 or BA/PAdm 604 and permission of instructor.
- BA 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 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 619** **3 Credits**
COMPUTER SIMULATION OF SYSTEMS (3+0)
 Intensive study of simulation concepts and methods. Introduction to DYNAMO and GPSS simulation languages. Survey of simulation applications in various disciplines. Prerequisite: Introductory statistics.

BA 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 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 630 3 Credits

SEMINAR IN MARKETING (3+0)

A survey of marketing institutions, systems, policies and practices. Review of marketing management concepts, marketing theory, and current marketing problems. Prerequisites: post-graduate or graduate standing. Prerequisite: BA 343 or permission of instructor.

BA 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 640 3 Credits

ADVANCED APPRAISING AND REAL ESTATE FEASIBILITY ANALYSIS (3+0)

A seminar course on appraising theory and feasibility analysis for development of an investment in real estate; real estate analysis related to current land-use practices and problems, and to property development and utilization. Prerequisite: BA 323.

BA 644 3 Credits

ADVANCED REAL ESTATE TAXATION AND INVESTMENT ANALYSIS (3+0)

A seminar course covering advanced investment techniques pertaining to real estate. It should be taken only by students who have a strong foundation in real estate investment analysis. Computer programs are used to analyze investments. Portfolio analysis is stressed particularly as it pertains to investment groups and large institutional investors. Prerequisite: BA 410

BA 652 3 Credits

INTERNATIONAL COMPARISON OF BUSINESS PRACTICES (3+0)

A comparative study of the business philosophy, organization, management style, and business-society interaction in the major 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 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 659A/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 659B/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 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

Economics

Econ 121 3 Credits

PRINCIPLES OF ECONOMICS I (3+0)

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

Econ 122 3 Credits

PRINCIPLES OF ECONOMICS II (3+0)

Theory of prices and markets; income distribution; contemporary problems of labor, agriculture, public utilities, international economic relations. (BA-S)

Econ 321 3 Credits

INTERMEDIATE MICROECONOMICS (3+0)

Analysis of demand and supply under various market structures; cost and theory of production; factor pricing and theory of distribution; survey of welfare economics. Prerequisites: Econ 121, 122. (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. (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 121, 122. (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/PS 351 Credits

PUBLIC FINANCE (3+0)

Government taxation, borrowing, and spending; economic effects of taxation, influence of fiscal policy on economic activity. Prerequisites: Econ 121, 122. (BA-S)

Econ 412 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 121, 122, 373. (BA-S)	3 Credits	Econ 625 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 501.	3 Credits
Econ 421 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)	3 Credits	Econ 626 ECONOMICS FOR PLANNERS (3+0) Concepts and issues of delineating regions, policy areas and functional economic areas. Regional income and wealth accounting. Determination of economic goals and objectives. Economic base analysis. Regional economic models for short term planning. Export base models. Regional growth models. Economics and land use. Economics and social-cultural change. Economics and the environment.	3 Credits
Econ 423 COMPARATIVE ECONOMIC SYSTEMS (3+0) Contrasts structure, institutions, and dynamics of selected private enterprise, collectivist, and underdeveloped economies. Prerequisites: Econ 121, 122. (BA-S)	3 Credits	Econ 634 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.	3 Credits
Econ 425 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)	3 Credits	Econ 640 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.	3 Credits
Econ 429 BUSINESS FORECASTING (3+0) Analysis of fluctuations in economic activity; theories of business fluctuations; methods of control and forecasting. Prerequisites: Econ 121, 122. (BA-S)	3 Credits	Econ 688 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.	3 Credits
Econ 430 MATHEMATICS FOR ECONOMISTS (3+0) Application of theorems from calculus, matrix, algebra and probability theory in various areas of economics such as linear programming input/output analysis, game theory, demand theory, production theory, and expected utility theory. Prerequisites: Econ 321, 324 and Math 272.	3 Credits		
Econ 435 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 121, 122. (BA-S)	3 Credits		
Econ 463 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 121, 122. (BA-S)	3 Credits		
Econ 501 INTENSIVE REVIEW OF ECONOMICS (3+0) 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.	3 Credits		
Econ 607 PUBLIC FINANCE AND TAXATION (3+0) Role of government expenditures in light of welfare economics, direction, and development of expenditures; types of taxes, their distributional and allocative effects; pricing policies in government enterprises; compensatory finance; the public debt. Prerequisites: Permission of instructor.	3 Credits		
		PI 620 ADMINISTRATIVE INTERNSHIP (3+0) Required of students to obtain specialization in specific areas of planning. This shall consist of part-time work in approved federal, state, local and private agencies, to be supervised by a senior employee of that agency in cooperation with a faculty advisor/analyst. 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.	3 Credits
		PI 650A COMPREHENSIVE PLANNING AND APPLIED SCIENCE (3+0) Interrelationship of physical, economic and social data base (physical geography, hydrology, climatology, soil, slope, resources evaluation and economy, transportation, energy sources, social organizations, demography, education, health, etc.). Analysis of interrelationships and application of new methods of comprehensive planning to arrive at more suitable forms of spatial organization and systems. Special attention given to unique aspects of planning in Alaska.	3 Credits
		PI 650B 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	3 Credits
		PI 650C 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	3 Credits

made. This will involve a series of meetings with local planners, political figures and citizens groups, as well as attendance at hearings on various issues. Prerequisite: PAdm 650A, B.

PI 661 3 Credits
THE SOCIAL ENVIRONMENT OF PLANNING (3+0)

An examination of the social context in which planning takes place. The role of government in determining the nature of the planning process. The impact that the public can have on planning in different political systems. Organizations of political and social groups to participate effectively in the planning cycle. The dormant role of social groups that do not participate.

PI 662 3 Credits
LEGAL ISSUES IN PLANNING (3+0)

The course focuses on three major areas of law: 1) constitutional issues (due process, property rights, civil rights), 2) environmental legislation and state and federal planning laws, and 3) formulation of laws directed to physical and social issues.

PI 663 3 Credits
DESIGN CRITERIA AND COST CONSIDERATION IN PLANNING (3+0)

This course, to be team taught, will examine design considerations, life-cycle costing, design economy; teaching team will include architect/planner/government administrator/construction economist/engineer.

Public Administration

PAdm 601 3 Credits
PUBLIC POLICY AND ADMINISTRATION (3+0)

The primary concern of this course is the public policy process. Given the complexity and diversity in policy processes, this course focuses on public issue formation, policy agenda, policy proposals, policy decision, policy implementation, policy evaluation and major policy areas including state and local government policies in the United States.

PAdm 603 3 Credits
MANAGEMENT ANALYSIS (3+0)

Introduction to organizational and systems analysis, systems theory, information systems, procedure analysis, management planning; management problem solving.

PAdm 604 3 Credits
RESEARCH METHODS IN ADMINISTRATION (3+0)

Methods and techniques of empirical research. Scientific method, design of research, data collection and analysis methods, survey sampling, statistical analysis including use of computers in data analysis. Prerequisite: introductory statistics.

PAdm 610/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 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 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 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 659A/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 659B/BA 659B 3 Credits
MANAGEMENT CONSULTING PROJECT (INTEGRATIVE BLOCK) (3+0)

A supervised consulting project for an existing organization designed to integrate policy concepts and practical problem-solving techniques. Must focus on problems of the total organization. Prerequisite: permission of instructor.

PAdm 689 8 Credits
DOCTORAL SEMINAR IN PUBLIC ADMINISTRATION (8+0)

Scope and method of public administration; historical and philosophical perspective; role of government bureaucracies in society. This course is part of the joint University of Alaska, Anchorage/University of Southern California doctoral program. Students must be admitted to the program to enroll in the class.



SCHOOL OF EDUCATION

Faculty

Acting Dean: James Hotchkiss

Professors: Lewis Haines, James Hotchkiss, Troy Sullivan, Ralph Van Dusseldorp

Associate Professors: Margaret Greer, Blaine Hanni, Nancy Henry, Marilyn Johnson, Donald McDermott, Gene Templeton

Assistant Professors: Thomas Besh, Linda Bruns, Katherine Spangler, Marilyn Wilson

Instructors: Cheryl Amundsen, Kelvin Christiansen, Harry Larrabee, Paul Meyerhoff, Kerry McCaig

In its mission to provide instruction, service, and research to the Alaskan Community, the School of Education offers curricula and programs designed to prepare personnel for various professional roles related to teaching in a variety of learning environments. For students interested in pursuing such studies, several types of curricula and programs are available.

1. Undergraduate and graduate curricula leading to accredited degrees and endorsement for educational certification in the State of Alaska.
2. Undergraduate and graduate curricula leading to accredited degrees which are not involved with endorsement for educational certification in the State of Alaska.
3. Undergraduate and graduate programs leading to endorsement for educational certification in the State of Alaska. These programs do not necessarily lead to a college degree.
4. Graduate study in Adult Education with an individually selected specialization. This curricula leads to an accredited graduate degree in Education but does not lead to endorsement for educational certification in the State of Alaska.

In each of these curricula and programs students are introduced to fundamental problems of education in the contemporary world through courses designed to develop perspective and understanding of the relationship of education to society. Courses provide theory and practice in the development of instructional materials and the understanding of methods of instruction. Students are formally admitted to an appropriate program on the basis of multiple criteria,

including their ability to make a positive contribution to the educational profession.

Degrees

Bachelor of Education (B.Ed.).

Master of Education (M.Ed.), Master of Arts in Teaching (M.A.T.).

Minimum Credit Hours Required For Degrees

B.Ed., — 130 credits

M.Ed., 36 additional credits

M.A.T., 30 additional credits

Students should be advised that actual credit hour totals frequently exceed minimums, especially at the graduate level. Due to prerequisite requirements and individually selected major and minors, areas of specialization and/or emphasis, the total required hours frequently exceeds minimum.

Certification Programs

The Alaska State Department of Education presently issues educational certificates under the "approved program" approach to certification. The University of Alaska, Anchorage, has the responsibility of recommending persons who successfully complete one or more of its approved programs to the Commissioner of Education for certification. The Dean of the School of Education is the only person authorized to endorse students for the appropriate certificate. The approved programs at the University of Alaska, Anchorage, are:

Elementary Education
 Secondary Education
 Physical Education
 Counseling and Guidance
 School Administration:
 Elementary Principal
 Secondary Principal
 Superintendent
 Special Education:
 Learning Disabilities
 Reading Specialist
 Elementary
 Secondary
 K-12

In general, the coursework required in Education for the Elementary and Secondary certificate is identical to that required by the Bachelor of Education degree for those programs. Information regarding required coursework for all approved programs may be obtained from the student's advisor and individual checklists of requirements are available upon request from the Office of the Dean. Students who have met part or all of the program requirements at another university must take at least 9 credits of approved education courses at the University of Alaska, Anchorage, prior to being admitted to student teaching, practicum, or internship, one of which is a requirement in every certification program.

Admission Requirements To The School of Education

In addition to the general requirements for admission to the University (See *Admission*), high school students who wish to be admitted to the School of Education should complete credits in the following areas: English — 3 credits; Mathematics — 2 credits; U.S. History — 1 credit; Natural or Social Science — 2 credits; Academic and elective areas — 7 credits. Otherwise, general requirements for admission as an Education major are the same as for admission to the University.

Students aspiring to be certified by the State of Alaska as a teacher following graduation will also wish to be admitted to the Teacher Education Certification Program and to be accepted as a Candidate for Certification. Certain procedural steps and grade performance standards are required for each. Students wishing to complete a B.Ed. without certification endorsement must complete academic program requirements as indicated, substituting approved coursework for student teaching.

Admission to Undergraduate Teacher Education Certification Program

Requirements:

1. Be an admitted student at UAA.
2. Completion of no less than 45 semester credits (transfer credits may be used). ENG 111, ENG 211 (or ENG 213 or ENG 311), Speech 111, ED 201 and ED 212 (or their equivalent) must be included with a grade minimum of B for each course. Courses may be retaken prior to

application for the purpose of removing deficient grades.

3. Student applicants are also required to meet with their Certification Admissions Committee to discuss their teaching aspirations, and personal strengths and weaknesses related to preparing for a teaching career. Completion of this interview is a prerequisite for admission to the Teacher Education program. This will generally be accomplished after the student has completed ED 212. Transfer students are responsible for completing the procedures for Admission to Undergraduate Teacher Education during their initial semester at UAA if they are at the Sophomore level or above.

Admission to Student Teaching

The Committee on Student Teaching shall have the responsibility of determining a student's readiness to enroll in ED 452, Student Teaching. The student must realize that standards set forth below constitute minimum preparation and it may be the judgement of the committee that the candidate needs further work to develop either content or methodological competencies.

Requirements:

1. Be an admitted student at UAA.
2. Be admitted to Teacher Education.
3. Completion of prerequisite coursework. For elementary (K-8) candidates: Completion of PSY 101, ED 212, 6 hours of History, MATH 345, MATH 346, ED 201, ED 313, ED 332, ED 409E, ED 411, ED 301, ED 302, ED 304, ED 306, ED 307, ED 308, ED 309, ED 311, ED 318 and ED 423.

For Secondary Education Candidates:

- a. Completion of a minimum of 26 approved credits in an approved teaching major with a GPA of 2.00 or more.
 - b. Completion of PSY 101, ED 201, ED 212, ED 313, ED 332, ED 409S, ED 410, and ED 423, and all special methods courses available in the teaching major; and/or ED 402.
4. Be recommended by the student's advisor.
 5. Be accepted by the Student Teaching Committee.

To be eligible for student teaching in the Fall, the completed application form must be filed with the School of Education's Student Teaching Committee by March 1 of the preceeding spring semester. The deadline for filing for teaching in the spring semester is October 15 of the preceeding fall semester. Forms for application to both Teacher Education and Student Teaching may be obtained from the student's advisor or from the Office of the Dean. A physical examination, including a current Tine test or chest x-ray, is also required of all student teachers.

Admission To Graduate Programs

Applicants are responsible for initiating the admission process by obtaining necessary information from the Office of Admissions and Records and the School of Education. Students also must take responsibility for arranging for official transcripts and records of scores on the aptitude and advanced education portions of the Graduate Record Exam to be forwarded to the UAA Office of Admissions and Records.

Minimum Qualifications For Filing For Applicant Status:

1. Possession of a bachelor's degree from an accredited institution.
2. Possession of a minimum Grade Point Average of 3.0 (on a 4.0 scale) in the last 60 credits.
3. Possession of Graduate Record Examination (GRE) scores with minimums of a combined aptitude score of 800 and 60th percentile on the Advance Education area test.

GRE's may be retaken to attempt to raise scores. In occasional instances when this minimum qualification cannot be met (e.g. students with English as a second language), the Graduate Admission Committee may choose to examine the case for consideration of granting an exception. Strong support for such consideration and evidence to support a claim for exception must be presented by the student.

Competitive Qualification

Since admission is competitive, meeting minimal qualification requirements does not guarantee admission. Applicants meeting the above minimum

qualifications must prepare a graduate file following the procedures available through the School of Education Office. The committee on graduate studies in education meets twice each semester to select the best qualified applicant for the spaces available in the program.

Admission to Certification Programs

Students with majors in other divisions or who have completed their degrees in other institutions must complete the following steps:

1. Apply for admission to the desired Certification Program, through the Office of Admission and Records.
2. Have an advisor assigned in the appropriate area by the Dean of the School of Education.
3. 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.
4. Confer with assigned advisor to develop an approved program.

UNDERGRADUATE DEGREES

BACHELOR OF EDUCATION (B.ED.)

Majors:

1. Elementary Education
2. Secondary Education
3. Physical Education

Graduation Requirements

Students pursuing the B.Ed. degree in any of the three majors (Elementary, Secondary, Physical Education) must satisfy three sets of requirements:

1. General University requirements (Pages 45-49)
2. General degree requirements including:
 - a. Of the minimum total 130 semester hours required, 48 must be upper division level (300 or above), 24 of which must have been completed at the University of Alaska, Anchorage.
 - b. A common core of courses from the College of Arts & Sciences
 - c. A common core of School of Education courses.
3. Specific course requirements for each major.

Each student is assigned an advisor at the time of admission. To assure normally paced progress toward graduation the appropriate sequential flow of courses should be discussed between student and advisor prior to registering for courses each semester.

All Program Requirements are listed below. Checklist worksheets noting all degree requirements by major are available from advisors for the student's use.

Certification Endorsement Requirements:

1. Completion of the degree requirements. (Note: Only courses with a grade of C or better may be applied to meet certification requirements.)
2. Admission to the Teacher Education Program
3. Admission to Candidacy for Certification
4. Recommendation of the faculty supervising the candidate's student teaching and the appropriate Department Chairperson
5. Endorsement of the Dean of Education

Common Core Requirements for all B.ED. Majors

Students in each of the three majors must complete a common core of courses from the School of Education and the College of Arts and Sciences. This common core includes:

	Credits
From Arts and Science	18
ENGL 111 Methods of Written Communication	3
ENGL 211 Literature, OR ENGL 213 — Intermediate Exposition, OR ENGL 311 — Advanced Exposition	3
SPCH 111 Fundamentals of Oral Communication	3
HIST 101/102 Western Civilization, OR	
HIS 131-132 — HIST of the U.S.	6
PSY 101 Introduction to Psychology	3
From Education	24
ED 201 Orientation to Education	3
ED 212 Human Development & Learning	3
ED 313 Educational Psychology	3
ED 332 Tests and Measurements	3
ED 423 History, Philosophy and Sociology of Education	3
ED 452 Student Teaching	9

(Students not admitted to the Teacher Education program and therefore not candidates for certification, may substitute 9 hours of general coursework approved by the advisor in lieu of the student teaching requirement.)

Specific Requirements for Each B.ED. Major ELEMENTARY EDUCATION MAJOR

Mathematics	6 credits
Math 345-346 Math Concepts and Methods for the Elementary School	
Natural Sciences	7 credits
Any course (s) with a "BA-N" designation at the end of course description. A lab science course must be included.	
Physical Education	2 Credits
PE 308 Physical Activities for the Elementary School	
Education	25 Credits
ED 301 Social Studies for Elementary Teachers	2
ED 302 Lang. Arts for Elementary Teachers	2
ED 304 Literature for Children	2
ED 306 Teaching Science in Elementary School	2
ED 307 Teaching Math in the Elementary Schools	2
ED 309 Elementary School Music Methods	3
ED 311 AV Methods & Materials	3
ED 318 Teaching Art in Elementary Schools	3
ED 409E The Reading Process	3
ED 411 Reading Instr. in Elem. Schools	3

Teaching Specialties

Elementary majors are required to establish two Areas of Concentration. The Major Areas of Concentration require a total of 24 credits of which at least 12 must be upper division. The Supportive Areas of Concentration require a total of 12 credit hours. Any course (including both required and elective courses) other than an Education course may be used with advisor's approval to meet these requirements. Approved Areas of Concentration:

Anthropology	Linguistics
Art	Mathematics
Biological Sciences	Music
Chemistry	Physical Education
Economics	Physics
English	Political Science
Geography	Psychology
Geology	Speech
History	Sociology
Language	

Areas of Concentration in Social Science, Early Childhood, Special Education and Cross-Cultural Studies may be accepted with prior approval of the School of Education.

Electives	48 credits
(Cautionary Note:) Although the student has considerable flexibility in the selection of electives, the courses must be chosen so as to satisfy three general requirements.	

1. At least 6 elective hours must come from the Humanities area. (This includes Art, English, History, Languages, Linguistics, Music, Philosophy, Speech)
2. At least 9 elective hours must come from the Social Sciences area. (This includes Anthropology, Economics, Geography, Political Science, Psychology, Sociology)
3. Courses must be selected which meet approval for the Areas of Concentration.

SECONDARY EDUCATION MAJOR

Mathematics or Natural Sciences..... 8 Credits

Selected courses by advisement

Social Sciences..... 6 Credits

PS 101-102 Intro. to Political Science 6

Education..... 15 Credits

ED 409S — The Reading Process 3

ED 410 — Reading In the Content Area 3

ED Methods (ED 402 or ART 442, or ED 406/ENGL

485 or MUS 405

by advisement) 3

Electives (Selected from ED 311-Audio-Visual

Meth. & Materials, ED 426-Prin.

& Prac. of Guid., ED 480-Educ. of Cult. Diff. Youth) 6

Teaching Major and Minor

Secondary majors must declare a Teaching major and minor.

Two options are available. Any course (including both required and elective courses) may be used, with advisor's approval, to meet these requirements.

OPTION A: Complete a teaching major and a teaching minor in one of the approved areas. Credit hour requirements vary according to the selected area but this option typically involves approximately 50 credit hours of which about two-thirds are applied to the major area and one-third to the minor area. A significant proportion of these credits are typically upper division hours. Specific requirements for each area, as either a major or a minor, are available, along with worksheet checklists, in the Office of the Dean.

Major or Minor

Art

Biological Sciences

Business

English

Mathematics

Music

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

Integrated Major-Minor

Social Science

Electives..... 48 Credits

(Cautionary Note:) Although the student has considerable flexibility in the selection of electives, the courses must be chosen so as to satisfy three general requirements.

1. At least 11 elective hours must come from the Humanities areas. (This includes Art, English, History, Languages, Linguistics, Music, Philosophy, Speech)
2. At least 6 elective hours must come from the Social Sciences area. (This includes Anthropology, Economics, Geography, Political Science, Psychology, Sociology)
3. Courses must be selected which meet approval for Teaching major and minor.

PHYSICAL EDUCATION MAJOR

Natural Science..... 16 Credits

BIOL 111-112 Human Anatomy & Physiology 8

CHEM 120 Survey of Chemistry 4

CHEM 121 Elementary Bio. Chemistry 4

Social Sciences..... 6 Credits

P.S. 101-102 Intro. to Political Science 6

Education..... 15 Credits

ED 402 — Methods of Teaching 3

ED 409S The Reading Process 3

ED 410 Reading In the Content Area 3

Electives (Selected from ED 311 — Audio-Vis. Meth.

& Materials, ED 426

— Prin. & Prac. of Guid., ED 480 —

Educ. of the Cult. Diff. Youth 6

Physical Education..... 33 Credits

PE 150 — Orientation to P.E. 2

PE 151 Sports Proficiency — Recreation 2

PE 152 Sports Proficiency — Team Sports 2

PE 153 Sports Proficiency — Individual 2

PE 246 Advanced First Aid 2

PE 311 Hist. & Princ. of P.E. 3

PE 421 Physiology of Exercise 3

PE 425 Or. & Adm. of P.E. 3

PE 432 — Biomechanics of Exer. and Sports 3

PE 440 — Prevention and Care of Athletic Injuries 3

P.E. Electives (To be selected by consultation with the

advisor) 8

Electives..... 18 Credits

Although the student has considerable flexibility in the selection of electives, the courses must be chosen so as to satisfy two additional requirements.

1. At least 11 elective hours must come from the Humanities area. (This includes Art, English, History, Languages, Linguistics, Music, Philosophy, Speech)
2. At least 6 elective hours must come from the Social Sciences area. (This includes Anthropology, Economics, Geography, Political Science, Psychology, Sociology)

Minors in Education:

For students pursuing degrees outside the School of Education, two minors in Education are available.

1. Teaching minor in Secondary Education
In addition to the course work shown below, certification requires admission to the teacher education program and admission to student teaching. Interested students should consult with the Dean of the School of Education.

Credits

ED 201 — Orientation to Education 3

ED 212 Human Development and Learning 3

ED 313 Educational Psychology 3

ED 332 Tests and Measurements 3

ED 409S Reading Process 3

ED 410 Reading in the Content Areas 3

ED 423 History, Philosophy, and Sociology of

Education

Methods 3 credits by advisement from ED 402,

ART 442, ED 406, ENGL 485, or MUS 405 3

ED 452S Student Teaching — Secondary 9

30 Credits

2. Non-teaching minor

ED 201 — Orientation to Education 3

114 School of Education

ED 313 Educational Psychology	3
ED 332 Tests and Measurements	3
ED 423 History, Philosophy, and Sociology of Education	3
Education electives by advisement	6

18 Credits

Completion of the Teaching Minor leads to endorsement for educational certification in the State of Alaska. The Non-teaching Minor does not.

In Physical Education:

A total of 20 credits is required including:

	Credits
PE 150 Orientation to P.E.	2
PE 246 Advanced First Aid	2
PE 311 History & Princ. of P.E.	3
PE 425 Organization and Administ.	3
Electives by advisement	10
	20 Credits

GRADUATE DEGREES

MASTER OF EDUCATION (M.ED.)

Within the curriculum of the M.Ed. program are several Emphasis options, each with its own set of specific requirements. Each is designed to provide the student with advanced preparation in professional education. All but Adult Education may also lead to endorsement for educational certification in the State of Alaska.

Emphases:

1. Elementary Education
2. Secondary Education
3. Counseling and Guidance
4. Public School Administration (Elementary Principal, Secondary Principal)
5. Reading (Elementary or Secondary or K-12 Specialist)
6. Special Education (Learning Disability or Mental Retardation)
7. Adult Education (Selected Specializations)

Graduation Requirements:

Minimum degree requirements for Master's Degrees in Education include:

1. Completion of the general university requirements and Master's degree requirements.
2. At least one year of successful contract teaching or administrative service, and hold, or eligible to hold, an Alaska Teaching Certificate.

3. An official program must be approved by completion of 9 hours of coursework.
4. Complete a minimum of 18 credits in a program at the graduate (600) level.
5. Complete a minimum of 36 hours of approved coursework in a program. (See section on degree requirements)
6. At least 18 hours must be completed after the semester in which the student was admitted and an official program approved by his/her graduate committee.
7. Pass a comprehensive written examination. An oral examination may also be required by the student's committee. (Cautionary Note:) Graduate courses completed prior to being admitted as an approved graduate student will not necessarily be applicable toward a specific graduate degree program. Since recency of undergraduate credit is of concern to the candidate's committee when developing the graduate program, coursework completed seven or more years before the date of the degree may not be used to fulfill the requirements of the degree. Undergraduate courses with grades lower than a B cannot be applied to meet requirements. (Please refer to General University graduate degree requirements)

Certification Endorsement Requirements:

1. Completion of the certification requirements. (Note: only courses with a grade of C or better may be applied to meet certification requirements.)
2. Recommendation of the appropriate Chairperson.
3. Approval of the Dean.

Requirements for the Emphasis Areas ELEMENTARY EDUCATION EMPHASIS

Required Courses	26 Credits
ED 603 Seminar: Reading Program in 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 635 Public School Organization	3
OR	
ED 641 School Law	3

ED 651 Curriculum and Instruction, Elementary	3
Electives by advisement.....	10

SECONDARY EDUCATION EMPHASIS

Prerequisite Preparation

ED 313 Educational Psychology	
ED 332 Tests and Measurements	
ED 409S The Reading Process	
ED 410 Reading in the Content Area	

Required Courses.....21 Credits

ED 426 Principles and Practices of Guidance	3
ED 607 Reading in the Secondary School	3
ED 622 Philosophy of Education	3
ED 627 Education Research	3
ED 631 Advanced Educational Psychology	3
ED 635 Public School Organization, Control, and Support	3

OR

ED 641 School Law	3
ED 652 Curriculum and Instruction-Secondary	3

Electives by advisement..... 12-14

COUNSELING AND GUIDANCE EMPHASIS

Prerequisite Preparation

ED 212 Human Growth and Development	
ED 313 Educational Psychology	
PSY 338 Abnormal Psychology	
ED 332 Tests and Measurements	
Or Equivalent	

Required Courses..... 40-43 Credits

PSY 406 Personality Theories	3
ED 426 Principles and Practices of Guidance	3
ED 480 Education of Culturally-Different Youth	
OR	
ED 677 Counseling the Exceptional Child	3
ED 600 Orientation to Counseling/Guidance	1
ED 612 Human Relations	3
PSY 623 Counseling Skills	3
PSY 624 Group Counseling	3
ED 627 Educational Research	3
ED 630 Practical Aspects of Testing	2
ED 631 Advanced Educational Psychology	3
ED 632 Occupational Information	3
ED 634 Practicum (two 3 credit courses)	6
ED 698 Individual Research	1-3
OR	
ED 699 Thesis	1-6

PUBLIC SCHOOL ADMINISTRATION EMPHASIS

Prerequisite Preparation

ED 313 Educational Psychology	
ED 332 Tests and Measurements	
Or Equivalent	

Required Courses.....33 Credits

ED 612 Human Relations in Education	2
ED 627 Education Research	3
ED 631 Advanced Educational Psychology	3
ED 635 Public School Organization, Control, and Support	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 Community School Board Relations	3
ED 651 Curriculum and Instruction Elementary	3
OR	
ED 652 Curriculum and Instruction-Secondary	3
ED 660A Internship Principal	3
Electives by advisement	3

READING EMPHASIS

Two distinct programs are available. A third, which essentially is a combination of the first two, may also be elected. This latter option is designed to develop the competencies required of a Reading Specialist across the full grade range of K to 12.

However, the student may elect to focus on the Elementary or Secondary area instead. Requirements differ according to the track selected.

Elementary Level Track

Prerequisite Preparation

ED 409E The Reading Process	
ED 411 Reading Instruction in the Elementary School	
ED 302 Language Arts for Elementary Teachers	
ED 304 Literature for Children	
ED 311 A-V Methods and Materials	
Or Equivalent	

Required Courses.....26 Credits

ED 603 Reading Program in Elem. School	3
ED 604 Diagnosis and Correction of Rdg. Def.	3
ED 605E Reading Lab — Elementary	2
ED 606 Reading Clinic	3
ED 609 Reading: Supervised Practicum	3
ED 651 Curriculum and Instruction Elem.,	3
ED 680 Theories of Learning Disabilities	3
ED 682 Diagnosis of Learning Disabilities	3
ED 683 Remediation of Learning Disabilities	3

Electives by advisement..... 10 credits

Secondary Level Track

Prerequisite Preparation

ED 409S The Reading Process	
ED 410 Reading in the Content Areas	
Or Equivalent	

Required Courses.....26 Credits

ED 604 Diagnosis and Correction of Reading Deficiencies	3
ED 605S Reading Lab — Secondary	2
ED 606 Reading Clinic	3
ED 607 Reading in the Secondary School	3
ED 609 Reading Supervised Practicum	3
ED 652 Curriculum and Instruction — Sec.	3
ED 680 Theories of Learning Disabilities	3
ED 682 Diagnosis of Learning Disabilities	3
ED 683 Remediation of Learning Disabilities	3

Electives..... 10 Credits

K-12 Inclusive Track

Prerequisite Preparation

ED 302 Language Arts for Elem. Teachers	
ED 304 Literature for Children	
ED 311 A-V Methods and Materials	
ED 409E The Reading Process	
ED 410 Reading in the Content Areas	
ED 409S The Reading Process	

116 School of Education

ED 411 Reading in the Elementary School
Or Equivalent

Required Courses*26 Credits

ED 603 Seminar: Reading Program in Elem. School	3
ED 604 Diagnosis and Correction of Reading Deficiencies	3
ED 605E Reading Lab — Elementary	2
ED 607 Reading in Secondary Schools	3
ED 609 Reading: Supervised Practicum	3
ED 651 Curriculum and Instruction — Elem. OR	3
ED 652 Curriculum and Instruction — Sec.	3
ED 680 Theories of Learning Disabilities	3
ED 682 Diagnosis of Learning Disabilities	3
ED 683 Remediation of Learning Disabilities	3

Electives by advisement10 Credits

*Endorsement for K-12 certification also requires one year of teaching experience at either the elementary or secondary level, and student teaching at both levels.

SPECIAL EDUCATION EMPHASIS

Required Courses15-21 Credits

ED 460 The Exceptional Child	3
ED 471 Issues & Trends in Special Education	3
ED 627 Educational Research	3
ED 687 Advanced Practicum: Special Ed.	3-6
ED 698 Individual Research	3-6
OR	
ED 699 Thesis	1-6

Electives by advisement15-21 Credits

ADULT EDUCATION EMPHASIS

The Adult Education emphasis is a specialized program within the Master of Education degree area. The program is designed to serve baccalaureate graduates who wish to complete a graduate degree program relevant to community, organization or institutional activities involving adult learners in a variety of situations. Individuals aspiring to instructional and/or managerial positions in such contexts as recreational programs, community mental health centers, programs for the retired or senior citizens, aerospace careers, community colleges, or similar learning environments may wish to enroll in this program. Successful completion of requirements leads to a Master of Education Degree with emphasis in Adult Education. It does not lead to teacher certification either directly or indirectly.

The Adult Education emphasis includes 4 distinct segments:

Admission Requirements:

1. A bachelor's degree from an accredited college or university with a concentration in a subject normally taught in a high school, community college or community education program or an Alaska teaching certificate with a minimum of 24 credits of education courses with an average g.p.a. of 3.00

2. One year of satisfactory teaching or administrative experience in an accredited public secondary school, community college or agency.

3. Admission is also contingent upon (1) satisfactory scores on various standardized tests, (2) a satisfactory personal interview conducted by School of Education faculty members, and (3) approval and availability of the desired specialization area, (4) meeting of prerequisites which may vary by specialization area.

Credits

1. **General Core Requirements:**9-12
 - ED 612 Human Relations In Education 3 Credits
 - ED 627 Educational Research Methods 3 Credits
 - ED 698 Individual Research, or
 - ED 699 Thesis 1-6 Credits*
2. **Teaching or Managerial Track Requirements:** 6
 - a. **Teaching Track** Student selects 2 of 3 courses
 - ED 631 Adv. Educational Psych. 3 Credits
 - ED 655 Seminar: The Adult Learner 3 Credits
 - ED 638 Supervision & Improvement of Instruction 3 Credits
 - OR
 - b. **Managerial Track** Student selects 2 of 5 courses
 - PSY 637 Organizational Environments 3 Credits
 - BA 670 Seminar In Human Resources Administration 3 Credits
 - PAdm 603 Management Analysis 3 Credits
 - PAdm/BA 610 Organizational Theory and Behavior 3 Credits
 - ED 637 Public School Admin. 3 Credits
3. Courses in selected area of specialization 12-15
(See cautionary note below)
4. Supervised field experience 6

TOTAL Required Courses 36

*The number of hours required in the specialization area will vary from 12 to 15 depending upon the variable credit elected in the research area. The total requirement of 36 credits is not affected.

Cautionary Note:

Choice of specialization area must be made at the time of application for admission. Courses to satisfy this requirement will be jointly selected by the student and the student's graduate committee. Since courses must be selected from offerings currently available at UAA, careful pre-application consideration of available specializations is necessary. Pre-application advisement is available through the office of the Dean of Education.

MASTER OF ARTS IN TEACHING (M.A.T.)

The Master of Arts in Teaching degree is designed to serve the following categories of students.

Category I

Baccalaureate graduates with a good general education and with majors or equivalent majors in subjects commonly taught in high school and who wish to prepare for a career in secondary school classroom teaching.

NOTE: Students under Category I will be admitted by the School of Education as education majors. The student's advisory committee consisting of at least two members from education and one member from the student's major subject area will be appointed by the Dean of the School of Education.

Category II

Baccalaureate graduates who have or who can qualify for the Alaska secondary school certificate, who intend to make secondary school classroom teaching their career and who wish to take additional work in their teaching major and or minor as well as in Education.

NOTE: Students under Category II will enroll in a department or program which offers an approved M.A.T. program. Students who have been accepted for the M.A.T. degree must also apply through the School of Education for admission to the Teacher Education program.

ADMISSION REQUIREMENTS:

1. Eligibility for one of the three above mentioned categories.
2. In general, a grade point average of at 3.00 in the baccalaureate major and in the case of Category II at least 3.00 both in the teaching major and in education courses.
3. Submission of the following to the Director of Admissions and Records.
 - a. a completed University Application of Admission to Graduate Study.
 - b. a statement of goals to which the M.A.T. will contribute.
 - c. official transcripts of all previous college or university work.
 - d. at least three letters of reference.
4. Additional evaluative material may be required by some departments: e.g.
 - a. Scores from the aptitude test of the Graduate Record Examination and/or scores from the advanced tests in the field of the baccalaureate major.
 - b. An interview (an interview is required for admission to a teacher certification program).
5. Recommendation for admission by the Dean of the School of Education and the

dean (or head) of the subject matter discipline.

DEGREE REQUIREMENTS:

1. A minimum of 36 semester credits is required for the M.A.T. degree, 15 or more of which must be at the 600-level for Categories I and II (secondary). While 36 semester credits is the minimum number of credits required, experience has shown that many M.A.T. students find it necessary to earn 45 or more credits in order to satisfy academic deficiencies and/or professional certification requirements.
2. The general education background of each M.A.T. student should include approximately 15 semester credits of study in each of the following areas (a) mathematics and natural science, (b) social science, and (c) humanities.
3. The total program of the student preparing for a career in secondary school teaching must include an approved teaching major as adjudged by the School of Education standards and/or accreditation standards of the Northwest Association of Secondary and Higher Schools.
4. The total program of the student preparing for a career in secondary teaching must include the course requirements necessary for Alaska teacher certification endorsement.
5. Education Courses
Specific courses required by the members of the student's graduate committee may vary depending on the particular degree.
6. Some departments may have additional degree requirements.
7. Each candidate must pass a written comprehensive examination.
The examining committee shall consist of the student's advisory committee. There is no thesis requirement for the M.A.T. degree.

APPROVED PROGRAMS:

The M.A.T. degree at the University of Alaska has been approved for English. Departments other than English must request specific approval for offering the M.A.T. Normally, such approval will be restricted to departments representing commonly

taught secondary school subjects. Students wishing to study toward M.A.T. degree in areas not previously approved may apply for admission under the University's interdisciplinary (individual attention) program.

Course Descriptions

Education

Courses not listed as part of a core or required sequence may be offered irregularly. Students should check with the Dean of the School of Education regarding specific course availability.

Ed 201 3 Credits ORIENTATION TO EDUCATION (1+6)

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

Ed 212 3 Credits HUMAN DEVELOPMENT AND LEARNING (3+0)

Content is a synthesis of the interrelated principles of human growth development adjustment and learning. It is designed primarily for students preparing for a career in teaching but is also open to parents, counselors, community workers and others interested in human development and learning.

Ed 280 2 Credits SIGN LANGUAGE I (3+0)

Presents introductory training in manual communication methods used in the United States. Students will learn how to carry on basic communication with deaf persons via manual mode. Credit will be awarded upon demonstration of mastery of the materials.

Ed 281 2 Credits SIGN LANGUAGE II (3+0)

Advanced instruction in manual communication methods. Students will become fluent in the most commonly used methods of communicating with deaf persons. Credit awarded only upon demonstration of successful mastery of the competencies required in the course. Prerequisites: Ed 280.

Ed 301 2 Credits SOCIAL STUDIES FOR ELEMENTARY TEACHERS (2+0)

Methodology and materials in the modern elementary social studies curriculum. Current trends in content and instructional techniques including unit planning and development and inquiry techniques. Field experience in a classroom is required. Prerequisites: Ed 332 and prerequisites thereto.

Ed 302 2 Credits LANGUAGE ARTS FOR ELEMENTARY TEACHERS (2+0)

Role in language in children's learning; specific language skills to be taught in grades kindergarten through six (listening, speaking, writing, spelling); methods and materials for effective teaching; organization for instruction; all aspects of the language arts except reading. Throughout the semester, students will be responsible for developing, conducting and evaluating curriculum activities in this with elementary children in an actual classroom setting. Prerequisites: Ed 332 and prerequisites thereto.

Ed 304 2 Credits LITERATURE FOR CHILDREN (2+0)

A survey of children's literature grades kindergarten through six. Criteria for evaluating children's books; exposure to authors, illustrators and content of specific categories of children's literature; book selection aids and current award-winning books. Throughout the semester, students will be responsible for developing, conducting and evaluating curriculum activities in this area with elementary children in an actual classroom setting. Prerequisite: Psy 245 or Ed 212 or permission of instructor.

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

Modern concepts, methods, and materials of teaching science. Prerequisites: Ed 332 and prerequisites thereto.

Ed 307 2 Credits TEACHING OF ELEMENTARY MATHEMATICS (2+0)

Modern methods, materials, and concepts in elementary mathematics. Fundamental operations with number sets. Includes elementary number theory, equations, non-metric geometry, measurement, problem solving, probability, and assessing children's growth, and meeting individual differences. Prerequisites: Math 345 or Math 346, and Ed 332 and prerequisites thereto.

Ed 308/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 309/Mus 309 3 Credits ELEMENTARY SCHOOL MUSIC (3+0)

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

Ed 311 3 Credits AUDIO-VISUAL METHODS AND MATERIALS (3+0)

Selection and use of audio-visual materials in teaching and learning at all levels of education. Prerequisites: Ed 313 and prerequisites thereto.

Ed 313 3 Credits EDUCATIONAL PSYCHOLOGY (3+0)

Study of psychological principles and experience in applying them to classroom teaching and learning in public school classrooms. Prerequisites: Psy 101, Ed 212

Ed 318/Art 318 3 Credits METHODS: ART IN THE ELEMENTARY SCHOOL (2+3)

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

Ed 332 3 Credits TESTS AND MEASUREMENTS (3+0)

Theory and practice of educational evaluation; emphasis on testing aspects most applicable for classroom teachers; construction of teacher-made tests; interpretation of teacher-made and standardized instruments emphasized. Not open to students having credit in Psy 373. Prerequisites: Ed 212.

NOTE: ED 335, ED 336, ED 337, and ED 338 are open only for those students already admitted to and satisfying graduation requirements of

the B.T. (Aviation-Air Traffic-Controller) program no longer offered by the School of Education.

Ed 335 3 Credits
PROCEDURES FOR THE CONTROL OF INSTRUMENT AIR TRAFFIC I

Presents standardized methods for use in designing instrument flight procedures. Provides necessary background to understand and implement a terminal instrument procedure. Student must demonstrate ability to apply standardized methods to insure safe use of airspace taking all relevant factors into consideration. Prerequisites: AAS in Air Traffic and course in College Algebra or instructor permission.

Ed 336 3 Credits
PROCEDURES FOR THE CONTROL OF INSTRUMENT AIR TRAFFIC II

Procedures and techniques for the control of air traffic in the enroute phase under instrument weather conditions are covered. Includes use of non-radar separation, instrument arrival and departure procedures, enroute procedures, altitude reservation, flow control, special military procedures and emergency operations. Students must demonstrate competency in the above procedures. Prerequisites: Ed 335 and prerequisites thereto or instructor permission.

Ed 337 3 Credits
PROCEDURES FOR THE CONTROL OF INSTRUMENT AIR TRAFFIC III

Application of standards and techniques learned in Ed 321 and 322. Requires student to control instrument traffic at a Community International Airport and its surrounding airspace. Includes actual movement of traffic, transfer of control, interpretation and application of letters of agreement, dealing with airspace control and irregularities and emergency situations in a simulated ATC environment. Prerequisites: Ed 336 and prerequisites thereto or instructor permission.

Ed 338 3 Credits
PROCEDURES FOR THE CONTROL OF INSTRUMENT AIR TRAFFIC IV

This course will acquaint the student with basic radar theory and basic concepts of radar ATC procedures. Includes actual hands-on time at an FAA radar facility utilizing and learning techniques of radar equipment operations and manipulation. Techniques included are radar separation utilizing vectoring techniques, speed control and ARTS 2 and 3. Prerequisites: Ed 337 and prerequisites thereto or instructor permission.

Ed 351 1 Credits
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)

Methods and teaching strategies, classroom management techniques, hands-on experience in secondary classroom. Prerequisite: ED 332. Must be taken prior to ED 452.

Ed 405/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 3 Credits
THE READING PROCESS (2+3)

Designed to provide basic knowledge and understanding of the nature of the reading process, the prerequisites to a successful beginning reading experience, teaching techniques for developing strategies required for reading skills acquisition, and methods of diagnosis required to meet individual needs in the reading program. Field experience in a classroom is a requirement. Prerequisites: Ed 332 and prerequisites thereto.

Ed 409S 3 Credits
THE READING PROCESS (2+3)

Designed to provide an understanding of the nature of the reading process and other prerequisites for successful teaching of reading skills at the secondary level. Field experience in a classroom is a requirement. Prerequisites: Ed 332 and prerequisites thereto.

Ed 410 3 Credits
READING IN THE CONTENT AREAS (2+3)

Techniques and materials for helping secondary students to acquire the skills necessary for greater comprehension of subject matter at the secondary level. Prerequisites: Ed 332 and prerequisites thereto. Must be taken concurrently with Ed 409S.

Ed 411 3 Credits
READING INSTRUCTION IN THE ELEMENTARY SCHOOL (2+3)

Current approaches to reading instruction. Diagnosis, instruction and materials related to development of reading readiness. Planning and preparation for reading instruction including definition of objectives and selection of appropriate learning experiences, teaching strategies, materials, and evaluation. Organization of classroom reading programs. Field experience in a classroom is required. Prerequisites: Ed 332 and prerequisites thereto. Must be taken concurrently with Ed 409/E.

Ed 423 3 Credits
HISTORY, PHILOSOPHY AND SOCIOLOGY OF EDUCATION (3+0)

Students will explore significant influences on American education from three aspects: the historical, with special emphasis on American roots of education; the sociological, with special emphasis on the social system which is the school; the philosophical, with special emphasis on the ancient roots and modern branches of influential thinking.

Ed 426 3 Credits
PRINCIPLES AND PRACTICES OF GUIDANCE (3+0)

Introduction to the philosophies, organization, patterns, tools, and techniques that aid teachers and guidance personnel in preparing students for responsible decision-making in modern society. Prerequisites: Ed 332 and prerequisites thereto.

Ed 430 3 Credits
AIR TRAFFIC FACILITY OPERATIONS

The student will become acquainted with the inner workings and procedures of an air traffic control facility. Specifically, the student will learn to deal with day to day routine report writing and facility operations, proper construction of required reports dealing with accidents, near mid-air collisions, systems deviations, and systems errors. Prerequisites: Advanced standing in Air Traffic program and consent of the instructor.

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

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

Ed 452S 9 Credits
STUDENT TEACHING — SECONDARY (0 + 36)

Supervised teaching in secondary schools approved by the School of Education. The School may limit registration, determine assignments, prescribe the number of teaching hours required, and cancel the registration of students doing unsatisfactory work. Prerequisite: Admission to student teaching.

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

Elementary student teaching consists of a fifteen-week semester of full days in the classroom of the elementary schools approved by the Education School. Experiences include: observations; teaming with host teacher and/or other team members; planning and conducting individualized instruction; organizing plans for grouping to meet varying needs of children; daily critique of performance by host teacher; weekly supervision and post-conference with University supervisor; and weekly seminar meetings of all student teachers with University faculty members. The classroom experience in the elementary school is designed to progress through the full range of teaching responsibilities of an elementary teacher in a typical school situation. Prerequisites: See requirements for admission to student teaching.

Ed 460 3 Credits
THE EXCEPTIONAL CHILD (3 + 0)

The introductory course to the field of Special Education. The nature and characteristics of various physical and mental exceptionalities included in the special education population are covered. Prerequisites: Ed 212, or equivalent.

Ed 471 3 Credits
ISSUES AND TRENDS IN SPECIAL EDUCATION (3 + 0)

A critical analysis of the current trends affecting special education programming across the country and in the state and local community. Includes an in-depth review of the literature describing trends and participation by local individuals in issues pertinent to the Alaska communities. Exposure to private and public agencies available to and for handicapped persons in Alaska is included in this course.

Ed 475 3 Credits
THE HANDICAPPED PRE-SCHOOL CHILD (3 + 0)

Covers the objectives, principles, and procedures for developing pre-school programs for the handicapped child. Basic understandings of child development precedes a discussion of the preventative and educational role of pre-school programming for the handicapped child. Management techniques and specific methods for teaching the pre-school handicapped child. Prerequisite: social, emotional, and academic behaviors are described. Prerequisite: Ed 460. As demand warrants.

Ed 480 3 Credits
EDUCATION OF CULTURALLY-DIFFERENT YOUTH (3 + 0)

Interdisciplinary study of problems encountered by teachers in educating culturally different pupils. Considers the psychological and social factors inherent in the educational process. Specific attention given to curricular improvement and teaching strategies appropriate for culturally different students. Prerequisites: Ed 313 and 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: Psy 623 and permission of instructor.

Ed 481 3 Credits
THE MENTALLY RETARDED (3 + 0)

Provides a basic understanding of mental retardation. Discusses the role of education of handicapped persons, the importance of early intervention, and consideration of such issues as labeling and the treatment of culturally different students. Includes an overview of characteristics, definitions and prevalence of various handicaps as well as their social, psychological and medical correlations. Prerequisite: Ed 460.

Ed 484 3 Credits
COMMUNICATION DISORDERS (3 + 0)

Covers the general field of communication disorders which includes the interrelated areas of speech, hearing, language, and vision. The psychological, social, emotional, and physical problems that children with these handicaps encounter will be discussed. Etiological factors, diagnostic tests and procedures, and educational implications will be covered. Prerequisite: Ed 460. As demand warrants.

Ed 486 3 Credits
CURRICULUM MATERIALS FOR SPECIAL EDUCATION (3 + 0)

Provides both extensive and intensive knowledge of and experience with instructional materials intended for use with exceptional children. Students will study, use, and learn how to critically evaluate materials.

Ed 487 1-6 Credits
PRACTICUM IN SPECIAL EDUCATION

Provides field experience with exceptional children in various facilities in the Anchorage area. Students will work with children who have communications, emotional, organic, and medical problems and with children who are mentally retarded. From two to three weeks will be spent in each institution. A time commitment of 12-15 hours per week is required. Prerequisite: Ed 460 or may be taken concurrently with Ed 460.

Ed 600 1 Credit
ORIENTATION TO COUNSELING/GUIDANCE (1 + 0)

An introduction to the counseling/guidance program. Emphasis is placed on helping the student to become aware of the elements that go into the basic counseling process. Students are helped to become aware of their own strengths and weaknesses as they relate to becoming an effective counselor. Admission by consent of instructor.

Ed 603 3 Credits
SEMINAR: READING PROGRAMS IN THE ELEMENTARY SCHOOL (3 + 0)

Study of current developments in reading theory and instructional practices. Procedures for program analysis and implementation of change. Individual in-depth study of specific problems related to reading instruction. Prerequisites: Ed 409 and Ed 411.

Ed 604 3 Credits
DIAGNOSIS AND CORRECTION OF READING DEFICIENCIES (3 + 0)

Nature of the reading process; emphasis on psychology involved in discerning reading difficulties, testing programs to ascertain specific disabilities in readiness, vocabulary, word-attack comprehension, speed and accuracy; specific suggestions for their correction; newer approaches to teaching reading. Prerequisites: Ed 409 and experience in the teaching of reading. (In conjunction with Ed 605, Reading Lab.)

Ed 605E 2 Credits
READING LAB — ELEMENTARY (0 + 6)

Working with a child who has been identified as having reading problems using testing and remedial techniques appropriate to his need. (Can be taken only in conjunction with Ed 604.)

Ed 605S 2 Credits
READING LAB — SECONDARY (0 + 6)

Working with a child who has been identified as having reading problems using testing and remedial techniques appropriate to his need. (Can be taken only in conjunction with Ed 607.)

Ed 606 3 Credits
READING CLINIC (2 + 3)

A practicum approach to learning the techniques for evaluation and therapy regarding multiple types of reading difficulties. Prerequisite: Ed 604 or equivalent.

Ed 607

3 Credits

READING IN SECONDARY SCHOOLS (3+0)

Designed to prepare teachers of reading and teachers of subject matter content area so that they may be better prepared to teach children who have reading problems or to act as reading specialists in the area of remedial reading and accelerated reading and to be able to organize reading programs in the junior and senior high school.

Ed 609

3 Credits

READING: SUPERVISED PRACTICUM

Provides supervised field experience with student and staff in public schools. Graduate students will work with an elementary or secondary faculty member fifteen to thirty hours per week. Prerequisites: Ed 409E, Ed 411, Ed 410 and Ed 606.

Ed 612

3 Credits

HUMAN RELATIONS IN EDUCATION (3+0)

Development of attitudes and behaviors which will help all those involved in education to deal directly with the affective domain of learning. Effective sending and receiving in communication will be studied as well as techniques for creating a positive communication atmosphere for the profession.

ED 613

3 Credits

AEROSPACE EDUCATION SEMINAR (3+0)

Graduate level orientation to the body of knowledge concerning Aviation and Aerospace industries. Designed for Elementary and Secondary teachers, aviation industry and agency participants.

Ed 615

3 Credits

HISTORY OF AVIATION AND AEROSPACE (3+0)

In depth study of Aviation and Space exploration history and implications toward modern society.

Ed 616

3 Credits

AVIATION AND AEROSPACE — THE PRESENT AND FUTURE (3+0)

In-depth study of current and proposed research in Aviation and Aerospace. Closely coordinated with National Aeronautics and Space Administration publications.

Ed 622

3 Credits

PHILOSOPHY OF EDUCATION (3+0)

Basic philosophic concepts and their historical development; philosophy applied to education and related issues and problems; examination of contributions of outstanding educators. Prerequisite: graduate standing in Education.

Ed 627

3 Credits

EDUCATION RESEARCH (3+0)

Techniques of education research; selection of topics and problems, data gathering, interpretation and preparation of reports. Prerequisites: graduate standing in Education.

Ed 629

3 Credits

INDIVIDUAL TESTS OF INTELLIGENCE (2+3)

Individual intelligence tests with emphasis on the Revised Standard-Binet Intelligence Scale and the Wechsler Intelligence Scales. Prerequisites: Ed 332 and permission of instructor. As demand warrants.

Ed 630

2 Credits

PRACTICAL ASPECTS OF TESTING

Offers advanced work in understanding and interpretation of a wide variety of standardized diagnostic instruments designed for use with children and adults. Emphasis will be placed on instruments used for planning educational programs. Students will interpret the diagnostic tests and prepare case reports for use in the child study team meetings. Prerequisite: Ed 332.

Ed 631

3 Credits

ADVANCED EDUCATIONAL PSYCHOLOGY: DEVELOPMENTAL (3+0)

Stresses understanding of human emotional, mental, physical and social development. Emphasis on individual differences. Assumes one

previous course in human development, educational psychology, and teaching experience. Prerequisite: graduate standing.

Ed 632

3 Credits

OCCUPATIONAL INFORMATION (3+0)

Principles and practices of vocational guidance. Explains process of choosing a vocation, theories of vocational choice, sources and dissemination of occupational information. Prerequisites: Psy 623 and permission of instructor.

Ed 634

3-6 Credits

COUNSELING PRACTICUM (0+9-18)

The culminating activity of counselor preparation. The counselor candidate works in a school setting and experiences the real situation of a school counselor. Prerequisites: Psy 623 and Psy 624 and permission of instructor.

Ed 635

3 Credits

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

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

Ed 637

3 Credits

PUBLIC SCHOOL ADMINISTRATION (3+0)

Responsibility pertaining to the organization of a school and the direction of personnel. Functions of instructional leadership. Public school administration as a career. Problems incident to public school administration in Alaska. Prerequisites: Ed 446 and graduate standing in Education.

Ed 638

3 Credits

SUPERVISION AND IMPROVEMENT OF INSTRUCTION (3+0)

Development, purpose, organization of supervisory programs; special attention to current in-service education programs. Prerequisite: graduate standing in Education. (Required for, but not limited to, administration majors.)

Ed 639

3 Credits

PUBLIC SCHOOL FINANCE (3+0)

Contemporary basis for raising and distributing federal, state and local education funds; problems of school financing in Alaska. Prerequisite: graduate standing in Education.

Ed 641

3 Credits

SCHOOL LAW (3+0)

Rights and responsibilities of teachers and pupils; rulings of the Attorney General; decisions of the courts, regulations of the State Board of Education. Prerequisite: graduate standing in Education.

Ed 645

3 Credits

SCHOOL BUILDING PLANNING (3+0)

School site visitation, discussions with planning personnel, and reading in the area of school architecture will be the course basis.

Ed 646

3 Credits

SCHOOL BUSINESS MANAGEMENT (3+0)

Operations of the school business manager will be the topic of research. State, federal, and local regulations and policies will be studied.

Ed 647

3 Credits

COMMUNITY — SCHOOL BOARD RELATIONS (3+0)

This course will provide opportunities to observe, participate and interact with educational leaders and organizations of the community. Reading and research in the area of community-school board relations will be included.

Ed 651

3 Credits

CURRICULUM AND INSTRUCTION IN ELEMENTARY EDUCATION (3+0)

This course is designed to provide opportunities for participants to explore a wide range of current developments in elementary education

122 School of 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 655 3 credits **SEMINAR ON THE ADULT LEARNER (3+0)**

Discussion of special topics related to the distinctive characteristics of the adult learner in a variety of learning contexts. Prerequisite: Graduate standing.

Ed 660A 1-6 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 1-6 Credits **INTERNSHIP: SUPERINTENDENT**

Field work in an appropriate educational or agency setting. Assignment will be respective to the superintendency. Prerequisite: approval of student's advisory committee.

Ed 675 3 Credits **METHODS FOR EDUCATING THE MENTALLY HANDICAPPED (3+0)**

Presents the principles and methods for teaching mentally handicapped elementary and secondary students. Class participants will practice developing appropriate instructional programs for teaching mentally handicapped students communication skills, arithmetic skills, and social and vocational competencies. Various methods including unit instruction, clinical teaching, work/study programming, and programmed instruction will be explored for teaching the mentally handicapped student. Prerequisite: Ed 460.

Ed 677 3 Credits **COUNSELING FOR EXCEPTIONAL CHILDREN (3+0)**

Presents theories and techniques for those professionals who work with exceptional children and/or their parents. Covers school, family, vocational, and personal problems of exceptional children, from the severely retarded to the brilliantly gifted.

Ed 678A 1 Credit **METHODS FOR THE MENTALLY RETARDED: MUSIC (1+0)**

This course presents theoretical background of uses of music in the education of the mentally retarded. Practical experiences using music and music therapy demonstrated. Opportunities for applied work with handicapped children will be provided. Prerequisites: Ed 460 and Ed 481.

Ed 678B 1 Credit **METHODS FOR THE MENTALLY RETARDED: ART (1+0)**

Covers methods and materials for teaching art to mentally retarded elementary and secondary students. The class will explore strategies, material characteristics, and activities for the enriched experiencing of the mentally retarded through art with emphasis on the teaching-therapy process for physical and mental growth. Prerequisites: Ed 460 and Ed 481.

Ed 678C 1 Credit **METHODS FOR THE MENTALLY RETARDED: PHYSICAL EDUCATION (1+0)**

This course presents a theoretical basis for a planned physical education program. State and community resources in recreation will

be covered. Curriculum development and practice in the implementation of special curricular physical education methods will be emphasized. Prerequisites: Ed 460 and Ed 481.

Ed 679 3 Credits **ASSESSMENT AND PLANNING FOR THE RETARDED (3+0)**

Students will develop individual and group instructional programs based upon a complete assessment of the individual(s) to be taught. Assessment measures to be mastered include individual intelligence tests, academic and social living assessment measures. This course is restricted to those who have completed half or more of their program. Instructor permission required for admission.

Ed 680 3 Credits **THEORIES OF LEARNING DISABILITIES (3+0)**

Interdisciplinary contributions to the development of the field of learning disabilities including familiarity with a wide spectrum of theories such as educationally oriented concepts, perceptual motor systems, multisensory systems, language systems, psycholinguistic approaches, neuro-psychological concepts, and psychodynamic theories. The concept of specific learning disabilities will be developed by definition, probable cause, and characteristics of learning-disabled children. An overview proceeding from evaluation to instruction will include diagnostic teaching, newer approaches to reading and specialized methods to prevent and remediate deficits in social, mental and physical development.

Ed 682 3 Credits **DIAGNOSIS OF LEARNING DISABILITIES (3+0)**

Offers advanced work in administration and interpretation of standardized diagnostic instruments designed for use with children with various kinds of learning disabilities. Students will administer, score, interpret diagnostic tests, and prepare appropriate reports for use with remediation. Prerequisite: Ed 680.

Ed 683 3 Credits **REMEDIAL EDUCATION FOR LEARNING DISABILITIES (3+0)**

Designed to provide supervised practice for students in 1) diagnosing learning problems of children; 2) recommending specific corrective intervention techniques; 3) implementing the recommended intervention program with the child; and finally 4) assessing and evaluating the effectiveness of the intervention strategy. Prerequisite: Ed 680.

Ed 684 3 Credits **THE GIFTED CHILD (3+0)**

Covers the education of the gifted child; social, emotional, and educational problems; divergent and convergent modes of thinking; understanding of high mental ability; and characteristics and methods of optimal classroom program.

Ed 685 3 Credits **ADOLESCENT AND ADULT LEARNING DISABILITIES (3+0)**

Study of specific problems concerning adults and adolescent learning disabled individuals. Emphasis is placed on preparing students to be able to recognize and cope with emotional characteristics, organize and manage an individualized program for secondary learning disabled students (including mainstreaming), demonstrate instructional techniques, and be cognizant of vocational and career opportunities available. Prerequisite: Ed 680.

Ed 686 3 Credits **WORK STUDY AND CURRICULUM FOR SECONDARY EXCEPTIONAL STUDENTS (3+0)**

Designed to provide secondary special education teachers with 1) a basic understanding of the work/study concept; 2) practice in developing appropriate instructional programs for the high school mentally handicapped student; and 3) an introduction to the principles and methods of vocational evaluation, counseling and placement of the handicapped. Prerequisites: Ed 460 and Ed 481.

Ed 687 1-9 Credits**ADVANCED PRACTICUM: SPECIAL EDUCATION****(0+3-27)**

Provides supervised field experience with exceptional children in Anchorage area facilities. Students will be assigned to work with children in the area of specialization. From 15 to 30 hours per week in the facility are required. Prerequisite: students must be in the final phase of their programs and have instructor permission.

Ed 689 3 Credits**INDIVIDUAL AND CLASSROOM MANAGEMENT****TECHNIQUES (3+0)**

Theoretical basis of various behavioral theories of classroom management are covered with emphasis upon applied Behavior Modification techniques. Several projects using behavior management principles with children are required. Students must have access to children or classrooms or work with children in local institutions.

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 150 2 Credits**ORIENTATION TO PHYSICAL EDUCATION**

Introduce students to basic theories and methods for achieving and maintaining high standards of physical fitness. General survey of community and school sports and exercise programs as they relate to developing positive, long term, knowledgeable attitudes towards personal health. Orientation to current physical education and recreation activity, methods, and theory courses. Open to all students. Required of all physical education majors.

PE 151 2 Credits**SPORTS PROFICIENCY — RECREATIONAL SPORTS****(1+3)**

Designed specifically to develop an understanding of all rules and regulations as well as minimal skill level in the following recreational sports: archery, bowling, fencing, physical fitness, riflery, skiing, weight lifting, etc.

PE 152 2 Credits**SPORT PROFICIENCY — TEAM SPORTS (1+3)**

Designed specifically to develop an understanding of all rules and regulations as well as minimal skill level in the following team sports: basketball, volleyball, soccer, softball, flag football, and hockey.

PE 153 2 Credits**SPORTS PROFICIENCY — INDIVIDUAL SPORTS (1+3)**

Designed specifically to develop an understanding of all rules and regulations as well as minimal skill level in the following individual sports: tennis, handball/racketball, swimming, golf, track and field.

PE 200 1 Credit**VARSITY SPORTS**

Credit granted for each student-athlete's participation in a recognized intercollegiate varsity sport. Registration required during semester of competition. Restricted to one credit per academic year. Prerequisite: permission of coach.

PE 246 2 Credits**ADVANCED FIRST AID (2+0)**

Progresses through the Basic, Standard and Advanced First Aid packages of the American Red Cross. Successful completion of requirements leads to certification by the American Red Cross in Advanced First Aid.

PE 301 2 Credits**SPORTS THEORY AND COACHING (2+0)**

Methods of coaching, playing and training in a variety of sports, including theories of offense and defense, contest strategies, and psychology of individual and team play. Separate sections may be offered in individual sports.

PE 303 2 Credits**TECHNIQUES ON TEAM SPORTS (2+0)**

This course covers techniques for teaching the various team sports played primarily at the junior and senior high school levels. Emphasizes both individual and team skills. Includes a basic understanding of all rules, organization, administration, theories and strategies for these games.

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

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

PE 305 2 Credits**TECHNIQUES IN INDIVIDUAL AND DUAL SPORTS****(1+2)**

Techniques for teaching and coaching in a number of individual and dual sports to include a thorough understanding of the roles, theories, strategies, organization and administration, participation and skill development.

PE 306 2 Credits**TECHNIQUES IN GYMNASTICS (1+2)**

Methods and practice in teaching tumbling and gymnastics apparatus.

PE 308/Ed 308 2 Credits**PHYSICAL ACTIVITIES FOR THE ELEMENTARY****SCHOOL (2+0)**

Philosophy, source, materials, games, rhythmic, group activities, and program planning; participation required to gain skills and techniques of teaching activities for elementary grade children.

PE 309 2 Credits**TECHNIQUES IN AQUATICS (1+2)**

Completion of course satisfies requirements for American Red Cross certification in Basic Rescue and Water Safety and certification in Basic Swim Instructor or Water Safety Instructor. Prerequisite: Permission of the instructor.

PE 310 2 Credits**TECHNIQUES IN RHYTHMS AND DANCE (1+2)**

Methods and practice in teaching rhythmic activities and dance.

PE 311 3 Credits**HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION**

The role of sports and physical education from ancient to contemporary societies, with consideration of principles of philosophy of physical education; overview of biological, psychological, and sociological foundations of physical education.

PE 321 1 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 332 3 Credits**TEST AND MEASUREMENTS IN P.E.**

Theory and application of the evaluation process in physical education including basic statistics; formation of measurable behavioral objectives; written test construction; survey of fitness and skill tests; their selection, administration and interpretation of results; and the use of basic computer programs to calculate various statistical values.

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

Philosophy, curriculum development, methods for facilitating learning and behavior modification, measurement and evaluation, observations and teaching in elementary and secondary school physical education.

PE 421 3 Credits
PHYSIOLOGY OF EXERCISE (3 + 0)

Physiological adaptations of the human body to muscular activity in exercise and sports under different environmental conditions. Relationships of endurance, training, nutrition, temperature, and altitude to physical performance. Prerequisite: Biol 112 and permission of instructor.

PE 425 3 Credits
ORGANIZATION AND ADMINISTRATION OF
PHYSICAL EDUCATION (3 + 0)

Philosophy, methodology, and problems of planning, organizing, directing and evaluation school programs in physical education, intramural sports and inter-school athletics.

PE 430 3 Credits
ADAPTIVE PHYSICAL EDUCATION

Organization of adaptive physical education programs, orientation to common physical and mental disabilities, and the theories and techniques employed in teaching and evaluating handicapped students in physical education.

PE 432 3 Credits
BIO-MECHANICS OF EXERCISE AND SPORTS (3 + 0)

Mechanics of human movement, mechanical and muscular analysis of human movement patterns, especially in exercise and sports. Anatomical concepts and physical laws applied to joint and muscular action. Prerequisite: Biol 112 and permission of instructor.

PE 440 3 Credits
PREVENTION AND CARE OF ATHLETIC INJURIES
 (2 + 2)

Prevention and care of injuries related to participation in sports and physical activity; theory and practice in taping and bandaging for prevention and rehabilitative purposes. Techniques in pre-activity and post-injury conditioning; equipment safety. Prerequisite: Biol 112.



SCHOOL OF ENGINEERING

Faculty

Director: Oscar Eugene Dickason

Professor: John M. Hilpert

Associate Professors: Theodore G. Eschenbach,
David C. Junge, Robert E. Miller, William G. Nelson
Assistant Professor: Eliza I Wojtaszek

Professional engineering embraces the wide range of cultural and technical subjects related to the planning, design and construction of works necessary for civilization. An engineer is an innovator, a builder, and a problem solver. The engineer turns scientific knowledge into goods and services useful to man and is responsible to society in the decisions he or she makes. The engineer is interested in creating, works with people, and is willing to work as a member of a professional team in a position of leadership. Engineers are concerned about people and how to provide all of us with a better standard of living.

In addition to providing the training necessary for entrance into the professional practice of engineering, an undergraduate degree in engineering provides an excellent background for those desiring to enter law, medical, or business school or graduate studies in engineering. The engineering programs at the University emphasize Northern problems and principles; therefore, engineering graduates of the University of Alaska are in great demand in the Alaskan job market. Many of the leading professional engineers of Alaska are graduates of the University of Alaska's engineering program.

Since engineering is based on the physical sciences of mathematics, chemistry, and physics, engineering students are introduced to the basic principles in these areas during their first two years of study. The third year of study is largely devoted to courses in the engineering sciences — extensions of the basic sciences forming the foundation for engineering analysis and design. In the senior year, students specialize within their disciplines and draw upon previous learning to focus their studies on creative design and analysis through simulated projects. Since engineers must be able to effectively communicate in written, oral, and graphic form and must be aware of their social responsibilities and roles in modern society, courses in communication, humanities, and social

sciences are taken throughout the four-year engineering programs.

Degrees

The School of Engineering offers the courses of study leading to the four-year Bachelor of Science degree in Civil Engineering. The first two years of this program also generally apply to most other fields of engineering, so that a student desiring other fields can begin an engineering program here. The School also offers graduate level Masters Degree programs in Engineering Management, Science Management, Environmental Quality Engineering, Environmental Quality Science, Civil Engineering and Arctic 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

It is recommended that students graduating from high school without the preparation indicated above enroll in the necessary courses to make up deficiencies during the summer term, so they can begin the Fall term with the complete freshman curriculum in engineering.

For those students required to take Math 106 during the Fall, ES 111 will be taken during the Spring semester.

Degree Programs

AVAILABILITY OF COURSES:

The undergraduate offerings of the School of Engineering are in a developmental stage. All required freshman, sophomore and junior courses for the degree in Civil Engineering are presently offered. In the fall semester of 1982, it is planned to add all required senior courses, to complete the program in Civil Engineering assuming appropriate Program funding. Students desiring degrees in other engineering specialties than Civil should plan to transfer at the end of their second year.

The graduate offerings of the School of Engineering are scheduled to accommodate part-time, evening students. As a result, the graduate programs normally require two or more years for completion.

Each student is expected to consult an advisor for proper course scheduling.

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

Engineering, Arctic

The Arctic Engineering program is designed to provide graduate education for engineers who must deal with the unique challenge of design, construction, and operations in the cold regions of the world. The special problems created by the climatic, geological, and logistical conditions of the Arctic and sub-Arctic require knowledge and techniques not usually covered in the normal engineering courses. Of primary importance is a thorough understanding of heat transfer processes. In addition, properties of frozen ground and frozen water are basic to most engineering activities in the Arctic. The areas of hydraulics, hydrology, and utility operations are also uniquely affected by arctic considerations.

The arctic engineering program requires a set of core courses that will prepare an engineer to understand and adapt to problems of cold regions. The program also allows students to study electives and advanced courses in their particular fields of interest. Research activities carried out by faculty associated with this program can provide opportunities for thesis or project papers dealing with the most current arctic knowledge.

Current development of petroleum and other natural resources has accentuated the demand for engineers trained in northern operations, both from private industries involved in development and government agencies planning or regulating these activities.

MASTER OF SCIENCE

1. Complete general degree requirements for the graduate degrees as shown on page 45-49.
2. Complete the following degree and major specialty requirements.
 - a. Bachelor's Degree in Engineering
 - b. Core Courses (minimum of 15 credits)

Credits

CE 603 — Arctic Engineering.....	3
CE 681 — Frozen Ground Engineering.....	3
CE 682 — Ice Engineering	
CE 683 — Arctic Hydrology and Hydraulic Engineering	3
CE 684 — Arctic Utility Distribution.....	3
ME 685 — Arctic Heat and Mass Transfer.....	3

- c. CE — Thesis or Project.....3
- d. Electives: 12 credits in areas related to/or supportive of the student's degree program and approved by the student's graduate committee.
3. Statewide School of Engineering requirement: Pass the State of Alaska Engineer-in-Training examination (examinations of other states accepted by the Alaska State Board of Examiners will meet this requirement).

Engineering, Civil

Engineering embraces the wide range of cultural and professional subjects having to do with the planning, design, and construction of works necessary for civilization. Civil Engineering in particular deals with environmental control; bridges, buildings, dams, and harbor facilities; water resource development and waste disposal; water power, irrigation works, and drainage; air, water, highway, and railway transportation; construction and management; topographic surveying and geodesy; city management and developmental planning.

Graduate students should enter one of two programs: those whose goal is broad professional practice will ordinarily choose the curriculum leading to the Master of Civil Engineering degree; those whose interests or background favor a specialized program, with emphasis on research and/or advanced specialized study, will ordinarily select the Master of Science in Civil Engineering degree.

In addition to the general civil engineering courses offered, a specialty, Water Resources and Hydrology, is available. The master's degree programs can emphasize a flexible program in water resources and hydrology tailored to individual students. The courses within the department in these areas stress the problems of northern regions and emphasize principles of analysis, planning, and engineering design as related to water supply, flood control, environmental safety, and land management.

A degree program can include courses in Ocean Engineering, Environmental Quality Engineering, Engineering Management, and other areas in addition to the Civil Engineering courses.

BACHELOR OF SCIENCE—CIVIL ENGINEERING

1. Complete the general degree requirements for the bachelor of science degree on page 45-49.
2. Complete the following degree and program requirements:

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 Communications.....	3
Math 201 — Calculus.....	4
ES 102 — Graphics II.....	2
CE 112 — Elementary Surveying.....	3
Chem 106 — General Chemistry.....	4
ES 201 — Computer Techniques.....	3
	19

SECOND YEAR**Fall Semester**

Math 202 — Calculus.....	4
Phys 211 — General Physics.....	4
ES 209 — Engineering Statics.....	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 210 — Engineering Dynamics.....	3
CE 334 — Properties of Materials.....	3
Social Science/Humanities Elective.....	3
	16

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
Social Science/Humanities Elective.....	3
	18

Spring Semester

ES 346 — Basic Thermodynamics.....	3
ES 308 — Instrumentation and Measurements.....	4
CE 344 — Water Resources Engineering.....	3
CE 441 — Sanitary Engineering.....	4
GEOL Elective by Advisement.....	3
	17

FOURTH YEAR**Fall Semester**

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

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 Engineering Systems.....	3
	16

A minimum of 134 credit hours must be completed for the BS in Civil Engineering.

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.

MASTER OF CIVIL ENGINEERING

Students entering the Master of Civil Engineering program should have completed a bachelor's degree in engineering.

A student will elect a Civil Engineering program approved by his graduate committee and must complete the general university requirements and master's degree requirements.

Thirty credits of approved courses beyond the BS degree are required. MCE candidates will have passed a State Engineer-in-Training Examination prior to the awarding of the degree.

MASTER OF SCIENCE — CIVIL ENGINEERING

A student selecting this program will meet the general university requirements and master's degree requirements plus the following: 30 credits approved by his graduate committee, of which six to twelve credits will be thesis.

Engineering and Science Management

The engineering and science management curriculum is designed for graduate engineers and scientists who will hold executive or managerial positions in engineering, construction, industrial, or governmental organizations. It includes human relations, financial, economic, quantitative, technical, and legal subjects useful in solving problems of management.

The curriculum includes graduate-level core courses in the subjects named above, plus additional course work either directed toward special problems such as arctic engineering or toward one of the more general fields of engineering or science through projects or research in the application of management principles. In addition to an undergraduate degree, a candidate should have had on-the-job experience in engineering or science.

MASTER OF SCIENCE**Science Management****Engineering Management**

1. Complete the general requirements for the graduate degrees as shown on page 45-49.
2. For the MS in EM candidates must hold a BS or MS in an engineering discipline. For the MS in SM candi-

dates must hold a BS or MS in a scientific field.

3. Complete the following course requirements.

	Credits
ESM 605 — Engineering Economy	3
ESM 608 — Legal Environment for ESM	3
ESM 611 — Accounting for ESM	3
ESM 612 — Finance for ESM	3
ESM 613 — Personnel for ESM	3
ESM 621 — Operations Research	3
ESM 684 — ESM Project	3
AS 307 — Probability and Statistics	3
*Electives	6

*Electives must have the approval of the department. Electives may include advanced courses in computer science but not courses in basic FORTRAN.

Substitutions for one or more of the courses listed above are permitted if similar courses are included in the student's previous academic background. No more than nine credits of appropriate graduate-level course work completed at other institutions with a grade of A or B may be transferred and applied toward the total 30 credits of required and elective courses. Both substitutions and transfer of credit must be approved by the department.

4. In addition to completing the 30 credits indicated above, a candidate must demonstrate competence in computer programming by passing a 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.

- Complete the general university requirements and degree requirements for the graduate degrees as shown on page 45-49.
- Complete the following degree and major specialty requirements.

	Credits
EQE 601 — EQS Measurements	3
EQE 602 — Water Quality Management	3
EQE 603 — Solid Waste and Air Pollution	3
EQE 604 — Environmental Quality Evaluation	3
EQE 605 — C/P Processes	3
EQE 606 — Biological Processes	3

EQE 684 — EQE Project	3
*EQE 693 — Special Topics	0-3
*EQE 697 — Individual Study	0-6
*EQE 699 — Thesis	0-6
*Electives	6-9

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

*Electives must have approval of graduate committee.

3. Thesis study (6 credits) is optional.

Thesis Option:	Credits
Thesis	6
Required courses	18
Electives	6

30

Non-Thesis Option:

Special Project	3
Required Courses	18
Electives	9

30

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, traverse. 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+3)

Fundamentals of engineering hydrology and hydraulic engineering. Precipitation, 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, 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 measurement. 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)

Principal 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 Credits
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, see page, drainage and frost action; sub-soil 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 415 or other surveying experience acceptable to the instructor.) Spring Semester, alternate years.

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 instructor.) Spring semester alternate years.

CE 620 3 Credits
CIVIL ENGINEERING CONSTRUCTION (3+0)

Construction equipment and methods, construction management and accounting, construction estimates and costs. Prerequisite: ESM 450 or equivalent. As demand warrants.

CE 632 3 Credits
ADVANCED STRUCTURAL DESIGN (3+0)

Design of complex structures and frames. Live, dead, and earthquake loadings. Structural joints, columns, connectors, ties and struts. Application of modern materials and techniques to design. Prerequisite: CE 431. As demand warrants.

CE 649 3 Credits
CITY AND REGIONAL PLANNING (3+0)

Elements of city and regional planning for engineers. Demography, land use, physical planning techniques. As demand warrants.

CE 662 3 Credits
SURFACE WATER DYNAMICS (3+0)

Principles of open channel flow; ice covered flow, unsteady flow, streamflow as a sediment and pollution transport agent. Prerequisite: ES 341. As demand warrants.

CE 663 3 Credits
GROUND WATER DYNAMICS (3+0)

Fundamentals of geohydrology, hydraulics of flow through porous media, well hydraulics, ground water pollution, and ground water resources development. Prerequisite: ES 341. As demand warrants.

CE 676 3 Credits
COASTAL ENGINEERING (2+1)

Review of deep and shallow water waves, littoral drift, coastal structures, pollution problems, harbor seiches. As demand warrants.

CE 681 3 Credits
FROZEN GROUND ENGINEERING (3+0)

Nature of frozen ground, thermal properties of frozen classification, physical and mechanical properties of frozen sub-surface investigation of frozen ground, thaw settlement and thaw consolidation, slope stability, and principles of foundation design in frozen ground. Prerequisite: training or experience in soil mechanics. Fall Semester alternate years.

CE 682 3 Credits
ICE ENGINEERING (3+0)

Factors governing designs which must contend with the presence of ice and snow are discussed. Topics include ice growth, ice and snow structure, mechanical properties and their dependence on temperature and structure, creep and fracture, mechanics of ice sheets, forces on structures, and experimental methods. (Prerequisite: ES 331, Math 202, training or experience in Soil Mechanics.) Offered Spring semester, alternate years.

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,

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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.

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)

A survey of engineering science and problem solving techniques, including static and dynamic equilibria, presentation of results, and engineering ethics. Students will be introduced to the use of computers and will participate in a design project. Prerequisite of high school algebra and trigonometry or corequisite of Math 200. Fall and Spring Semesters.

ES 201 3 Credits COMPUTER TECHNIQUES (3+0)

An introduction to programming and analysis using FORTRAN. Computer solution of problems in engineering and physics. Micro-computer and programmable calculator applications. Prerequisite: Math 107, 108 or enrollment in Math 200. Fall Semester.

ES 209 3 Credits ENGINEERING STATICS (3+0)

Vector quantities, equilibrium including friction forces, structural mechanics, center of gravity and moments of inertia are considered. Prerequisites: ES 111 or Physics 211 and Math 201. Fall Semester.

ES 210 3 Credits ENGINEERING DYNAMICS (3+0)

Kinematics and kinetics of particles and rigid bodies are studied. Newton's laws of motion, momentum and work and energy concepts are studied. Prerequisite: ES 209. Spring Semester.

ES 307 4 Credits ELEMENTS OF ELECTRICAL ENGINEERING (3+3)

Electrical fundamentals; elementary circuits and theorems, natural, forced and steady state response; principles of electronics; circuit models and system parameters. Prerequisite: Math 201 or permission of instructor. Fall Semester.

ES 308 4 Credits INSTRUMENTATION AND MEASUREMENT (3+3)

Characteristics of AC and DC machines, transformers and vices; transducers; data sensing, recording and display; electronic amplifiers and instrumentation systems. Prerequisite: ES 307. Spring Semester.

ES 331 3 Credits MECHANICS OF MATERIALS (2+3)

Theory and practice of structural material. Stress-strain relationships. Torsion. Shear and moment diagrams. Beams, columns, shafts. Connections. Indeterminate analysis. Prerequisites: ES 208, Math 201. Fall Semester.

ES 341 4 Credits FLUID MECHANICS (3+3)

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

ES 346 3 Credits BASIC THERMODYNAMICS (3+0)

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

ES 690 No Credit ENGINEER REFRESHER (EIT)

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

Engineering and Science Management

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

Compilation and analysis of the many items that influence and contribute to the cost of the proposals and study of bidding procedures. Preparation of cost proposals and study of bidding procedures. Alternate Spring Semesters.

ESM 450 3 Credits ECONOMICS ANALYSIS AND OPERATIONS (3+0)

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 3 Credits ENGINEERING ECONOMY (3+0)

The science of fiscal decision-making. Graduate-level studies in problems of replacement, economic selections, income tax accounting, engineering evaluation are introduction to the problems of depreciation. Fall Semester.

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

A course devoted to those aspects of law specifically related to technical management. Contracts, sales, real property, business organization, labor, patents, insurance. Spring Semester.

ESM 611 3 Credits ACCOUNTING FOR ESM (3+0)

A first course in accounting principles, industrial accounting, business organization; business finance; emphasis on use of data management rather than its generation. Fall Semester.

ESM 612 3 Credits FINANCE FOR ESM (3+0)

Development of ability to seek out needed information, analyze it, and make recommendations over a wide range of managerial problems involving fiscal matters: cases involving capital acquisitions, profit maximization, management problems. Prerequisite: ESM 605 and ESM 611. Spring Semester.

ESM 613 3 Credits PERSONNEL FOR ESM (3+0)

Human element in management; labor relations, human relations, personnel administration, industrial psychology, employee relations, and labor economics from the viewpoint of a manager. Fall Semester.

ESM 621**3 Credits****OPERATIONS RESEARCH (3+0)**

Mathematical techniques for aiding managerial decision-making. Waiting line theory, inventory models, linear programming, transportation problems, dynamic programming, PERT/CPM, machine scheduling, and simulation. Emphasis on application of techniques to actual management situations. Prerequisite: AS 307 or permission of instructor. Spring Semester.

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

A course in basic FORTRAN programming, with application to engineering and science management problems. (NOT offered for credit toward the MS in Engineering Management or Science Management.) As demand warrants.

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

Individual study of an actual engineering or science management problem, resulting in a report which includes recommendations for action. Fall, Spring, Summer Semesters.

Environmental Quality Engineering

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

Theory and laboratory procedures for determining quality of water supplies. Natural water quality, pollution loads and water and wastewater treatment plant parameters. Familiarization with "Standard Methods for the Examination of Water and Wastewater." Experiments on unit processes of treatment systems are included along with consideration for solid waste and air pollution monitoring. Prerequisite: permission of instructor. Fall Semester*.

EQE 602**3 Credits****WATER QUALITY MANAGEMENT (3+0)**

Concepts, rationale, theory, institutions and engineering aspects of water quality management. Methods of water quality management; low flow augmentation, in-stream aeration, stream and estuarine analysis; ocean disposal systems; diffuser analysis and design; control of thermal effluents, industrial discharges and arctic applications. Prerequisite: permission of instructor. Fall Semester*.

EQE 603**3 Credits****SOLID WASTE AND AIR POLLUTION (3+0)**

Planning, collecting and disposing of refuse. Techniques of open dumping, landfilling, sanitary landfilling, composting incineration, and resource recovery. Solid waste environmental relationships to water, air and land pollution. Economics and case studies are included. Air pollution topics will include quantity and quality of atmospheric emissions and their effects on man and his environment. Identification and location of sources, measurement of quality and quantity, control and regulations, economics and standards. Prerequisite: permission of instructor. Fall Semester*.

EQE 604**3 Credits****ENVIRONMENTAL QUALITY EVALUATION (3+0)**

Topics of environmental impact statements, environmental law (local, state and federal), and environmental quality. Impact from projects of mining, highways, airports, pipelines, industrial development, water wastewater and solid waste, and others theoretical considerations and case studies. Prerequisites: graduate standing and permission of instructor. Fall Semester*.

EQE 605**3 Credits****CHEMICAL AND PHYSICAL WATER AND****WASTEWATER TREATMENT PROCESSES (3+0)**

The theory and design of chemical and physical unit process utilizing

the treatment of water and wastewater. Sedimentation and flotation, ion exchange, absorption, coagulation, precipitation, filtration, disinfection, reverse osmosis and aeration theories will be studied. Design problems for all unit processes. Prerequisites: graduate standing and permission of instructor. Spring Semester*.

EQE 606**3 Credits****BIOLOGICAL TREATMENT PROCESSES (3+0)**

Study of the theoretical and biological processes including activated sludge, trickling filters, lagoons, sludge digestion and processing, septic tanks; analysis and design; nutrient removal processes, biology of polluted waters, economics, state and federal regulations. Prerequisites: graduate standing and permission of instructor. Spring Semester*.

EQE 684**3 credits****EQE PROJECT (3+0)**

The project is arranged between the advisor and the student. Generally the student has been admitted to candidacy for the Master's Degree and a project committee is formed. The student must take an oral exam defending the project.

*EQE sequence repeats every three semesters.

Mechanical Engineering

ME 685**3 Credits****ARCTIC HEAT AND MASS TRANSFER (3+0)**

An introduction to the principles of heat and mass transfer with special emphasis on application to problems encountered in the arctic such as ice and frost formation, permafrost, condensation, and heat loss in structures. Prerequisite: graduate standing or permission of instructor. Spring Semester alternate years.

ME 690**No Credit****ENGINEERING REFRESHER (PE)**

A course designed for the practicing engineer who has passed the State of Alaska Engineer-in-Training exam. It provides a review of fundamentals in mechanical engineering with emphasis upon material required to pass the State of Alaska Professional Engineer Exam. As demand warrants.

Petroleum Engineering

Petr 101**3 Credits****INTRODUCTION TO THE PETROLEUM INDUSTRY (3+0)**

A survey of the petroleum industry from exploration through refining.

Petr 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.

Petr 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.

Petr 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.

Petr 612**3 Credits****WELL TEST ANALYSIS (3+0)**

A thorough treatment of oil and gas well test analysis including drawdown, buildup and interference, multiple rate testing, drill stem testing, fracture detection and transient rate analysis. Fundamental deviation and practical applications will be presented.



SCHOOL OF NURSING

Faculty

Dean: Clair Eugene Martin

Associate Dean Baccalaureate Program: Betty L. Hodo

Associate Dean Graduate and Continuing Education Programs: Patricia Slutzker

Professor: Clair Eugene Martin

Associate Professors: Tina DeLapp, Betty Hodo, Annabelle Moore, Patricia Slutzker

Assistant Professors: Myrna Armstrong, Connie Bertholf, Janet Hale, Susan House-Darden, Virginia Lewis, Gwenn Otte, Jan McLaurin, Donna Pitcher, Julie E. Sprott, Marcia Watson

Instructors: Duey Bliss, Bernice Carmon, Sandy Clapper, Ann Evans, Jill Janke, Susan Littell, Barbara Maryan, Gail Moses, Kate Morris, Vincent Pelletier, Jackie Pflaum, Sandra Rowen, Dianne Toebe, Patricia Vermeersch, Dale Walberg.

The mission of the School of Nursing is to educate students for productive citizenship, personal growth and beginning professional nursing practice. Undergraduate students are provided with both the theory and clinical base to assess, plan, implement and evaluate health care needs and nursing actions relative to the prevention of illness, the promotion and restoration of health for individuals and groups in both institutional and community health settings. Instruction and clinical experiences are designed to maximize the students breadth of understanding of the unique health care needs of various age and socio-cultural groups. The program is designed to reflect Alaskan health care needs and our health care delivery system although the graduate is prepared for beginning practice positions in other health care settings as well. Graduates of the program are eligible to write the State Board Test Pool Examination for licensure as a Registered Professional Nurse in any of the 50 states. The program also provides students with the academic base for graduate study in nursing.

The School of Nursing is accredited by the Alaska State Board of Nursing; the National League for Nursing Division of Baccalaureate and Higher Degree Programs; and the American Nurses Association, Accreditation of Continuing Education.

The School also provides continuing education opportunities designed to maintain and expand the

knowledge and abilities of graduate nurses and other health care practitioners. These short courses are offered throughout the State and are planned in response to identified practitioner needs. A calendar of continuing education courses is published and distributed regularly.

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

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. 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 Tine 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 45-49. 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 Methods	4
Biol 203 — Nutrition	2
HS 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 (must be in Humanities, Social Science, Mathematics or Science) 130

MASTER OF SCIENCE WITH A MAJOR IN NURSING

A four semester Master of Science with a major in Nursing degree is offered in community nursing. The program places primary emphasis upon advanced professional nursing practice, theory, research and health care delivery systems. It provides a foundation for doctoral study. The student selects a functional minor in either administration or education. Graduates will meet American Nurse Association national certification criteria as a Family Practitioner or Community Nurse Practitioner and will be

prepared to practice within the rules and regulations promulgated by the Alaska Board of Nursing.

ADMISSION REQUIREMENTS

1. Baccalaureate degree in nursing from a National League for Nursing accredited program.
2. 3.0 per 4.0 scale undergraduate cumulative grade point average.
3. Graduate Record Examination and/or Miller Analogy.
4. Licensure to practice nursing in the State of Alaska.
5. Official copy of all college transcripts.
6. Three letters of recommendation.
7. Essay discussion of career goals.
8. Personal interview.
9. Undergraduate prerequisites must be completed prior to admission. Statistics and physical assessment may be offered Summer Session at UAA. Physical assessment requirement may be met through competency validation.

COURSE SEQUENCE

Master of Science with a Major in Nursing

Semester I	Credits
NS 610 Advanced Nursing I	6
NS 640 Health Care in Social Context	4
NS 620 Conceptual Frameworks and Theory in Nursing	3
TOTAL	13

Semester II	Credits
NS 612 Advanced Nursing II	6
NS 622 Theory Verification in Nursing	3
NS 621 Nursing Research Seminar	1
NS Elective in Teaching or Administration	3
TOTAL	13

SEMESTER III	Credits
NS 614 Advanced Nursing III	4
NS 623 Nursing Research Seminar	1
2 Electives in Teaching or Administration	6
NS 632 Role Development in Nursing Education	2
OR NS 634 Role Development in Nursing Administration	2
TOTAL	13

SEMESTER IV	Credits
NS 616 Advanced Nursing IV	3
NS 642 Professional Nursing in Perspective	2
NS 624 Thesis Seminar	1
Electives in Teaching or Administration	3
NS 636 Seminar-Practicum Teaching Nursing	2
OR	
NS 638 Seminar-Practicum Nursing Administration	2
TOTAL	11

Total Program Credits 50
NS 699 Thesis

QUALIFYING EXAMINATION:

Core program requirements are offered in Semesters I, II, and III. Upon successful completion of the core courses the student is required to pass a written qualifying examination.

Core Courses:

NS 610, 612; 614 Advanced Nursing Theory and Practice

NS 620 Conceptual Frameworks and Theory in Nursing

NS 622, 621 Theory Verification in Nursing; Nursing Research Seminar

NS 640 Health Care in the Social Context

NS 632 Role Development Nursing Education or NS

634 Role Development in Nursing Administration

Electives for the Functional minor (Education and Administration) will be selected with advisement

PROFESSIONAL PRACTICUM for NS 614 and NS 616 are selected relevant to student interest and resources available. The student may waive 3-7 credits in advanced clinical course. (NS 614 and NS 616) on the basis of Family Nurse Practitioner or Community Practitioner Certification or the completion of an accredited program.

THESIS:

Each student will implement a research design resulting in the preparation of the thesis. Core content in theory and research — (NS 620, NS 621, NS 622) offered the first two semesters of the program results in a proposal. Thereafter Research Seminar II (NS 623) assists implementation.

A faculty advisor will guide the student during development of the thesis (proposal) and serve as chairperson of a three member faculty advisory committee solicited by the student for the purpose of assistance and evaluation of the project.

An oral examination is conducted by the three member faculty committee. Questions will be asked on the topic of the thesis and methodology. The student will defend proposed recommendations. Oral examination is required prior to final approval.

Whenever possible courses will be offered in afternoon and early evening in order to facilitate scheduled for clinical practicum. Course sequences requires transfer students and those who desire part-time course of study to seek early advisement.

Course Descriptions**Nursing Science****HS 216****3 Credits****HEALTH DISRUPTIONS AND TREATMENT****MODALITIES I (3+0)**

A basic conceptual study of disease and the resultant abnormal functioning. Key concepts are utilized to assist the student to develop an understanding of the basic physiologic mechanisms of disease and of the approaches to the therapeutic management of affected clients. Prerequisites: Biol 111 and 112 or equivalent

HS 217**3 Credits****HEALTH DISRUPTIONS AND TREATMENT****MODALITIES II (3+0)**

A basic conceptual study of disease and the resultant abnormal functioning. Key concepts are utilized to assist the student to develop an understanding of the basic physiologic and psychologic mechanisms of disease and of the various approaches to the therapeutic management of affected individuals. Prerequisites: HS 216

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 301,302**8 Credits****NURSING THE WELL CLIENT I AND II (4+12) (4+12)**

A two-semester sequence of theory and practice applications. The nursing process is applied to care of the essentially well client. Basic skills in collecting and assessing health data through interviewing, history taking, and selected health assessment procedures are introduced. Emphasis is upon maintenance and promotion of healthy function. Student experience is gained in community settings. Prerequisites: Admission to upper division clinical placement in the nursing program; completion of lower division requirements.

NS 303**10 Credits****NURSING CLIENTS EXPERIENCING TEMPORARY HEALTH DISRUPTIONS (5+15)**

This course utilizes the framework of the integrated curriculum and systems theory principles to provide the student with a knowledge base for care of clients with temporary health disruptions.

The knowledge and skills in health maintenance and promotion provided in NS 301 and 302 are utilized and expanded to emphasize restoration of health function. Student experience is gained in acute care settings. Prerequisites: HS 216, HS 217, NS 302, Biol, 203 BA 432, BA 335.

NS 305**1 Credits****CLINICAL NUTRITION (1+0)**

Course objectives require the student to consider nutritional needs and therapy of clients as part of a holistic approach to client care, including specific consideration of economic, social, cultural, psychological and physiological factors. Also asks students to identify and respond to specific needs of individual clients at various levels of wellness and clinical settings. Prerequisites: Biol 203, HS 216 and HS 217 or R.N. licensure or permission of instructor.

NS 307**1 Credits****INTELLIGENT SELF-MEDICATION (1+0)**

An elective course dealing with medications utilized by basically health individuals. Following a general introduction to drug impact on

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living systems, various non-prescription drug classes are examined in depth. Emphasis is on the rationale for drug intervention or non-intervention and nursing implications with regard to teaching and to toxicity. Representative drug products are examined critically. Prerequisites: HS 216 or 217 or RN licensure.

NS 311 2 Credits

THE CHILD AND ILLNESS (1+3)

This course explores the theory related to the experience of illness and/or hospitalization for the child and his family. Focus is directed to planned, implementing and evaluating nursing interventions which minimize trauma and restore healthy function to the child and his family. The student will follow a pediatric client through illness and/or hospitalization. Prerequisites: NS 302, HS 217

NS 312 2 or 3 Credits

NURSING INTERVENTIONS FOR THE CRITICALLY ILL ADULT (2+0) (2+1)

Designed for the student who is interested in the specialty area of critical care nursing, this course provides the student the opportunity to focus learning on the specific needs of the critically ill adult and on the role of the critical care nurse. Case students are used to assist the student to apply the nursing process (using the FANCAS format) to the management of the critically ill adult. Emphasis is placed on promoting the movement of the client from critical illness to recovery and independence. Prerequisites: HS 217 and NS 302 for 2 credit option; NS 303 or 3 credit option

NS 401 10 Credits

NURSING CLIENTS EXPERIENCING LONG-TERM HEALTH DISRUPTIONS (5+15)

The nursing process applied to care of clients experiencing long-term disruptions to health. Knowledge and skill in activities promoting health maintenance, restoration, and rehabilitation. Emphasis is on rehabilitation to maximize healthy function. Student experience is gained in rehabilitation and other chronic care settings. Prerequisite: NS 303.

NS 402 10 Credits

CONCENTRATION IN PROFESSIONAL NURSING PRACTICE (1+27)

Integration and synthesis of the knowledge and skill competencies basic to professional nursing practice. Emphasis is upon adjustments to realities of practice situations. Clinical sites selected in relation to individual student interests and learning needs. Prerequisite: NS 401.

NS 407 2 Credits

NURSING IMPLICATIONS IN PRESCRIPTION DRUG ADMINISTRATION (2+0)

An in depth pharmacology course that assists students to safely utilize pharmacologic agents within the framework of the nursing process in the care of clients with temporary and long term health disruptions. Students analyze clinical situations to identify nursing implications related to the use and administration of drug families and of specific agents within the following nursing practice concepts: Risk, Deprivation-Overload and Respiration. Prerequisites: HS 216, HS 217, NS 302 or RN licensure or permission of instructor.

NS 410 2 Credits

ONGOING DIMENSIONS AND DIRECTIONS OF NURSING (2+0)

An ongoing exploration of student selected trends, issues and problems in nursing and nursing education. The course is designed to build on the students' recognition of factors influencing the evolution of nursing that were introduced in NS 110 and refined throughout their program of study. Nursing organizations and legal responsibilities are further explored. Senior standing in the School of Nursing or successful completion of NS 110 and RN licensure.

NS 471 3 Credits

CLINICAL APPLICATIONS OF NURSING RESEARCH (3+0)

Critical evaluation of current nursing research and potential application of research methodology in clinical settings. Prerequisite: Instructor permission.

NS 501 3 Credits

HEALTH ASSESSMENT (2+1)

This 96-hour course is designed to prepare the pre-Master's student with basic history and physical assessment skills. These include communication skills, essential for taking an accurate history and include technique of observation, palpation, percussion, and auscultation. Students will not be taught the fine discrimination of making a diagnosis, but will be able to accurately describe findings, assess the client, differentiate between normal and abnormal, and suspect and identify problems. Successful completion of the course will be determined by demonstrating a history and physical with accompanying documentation at a pass level. This course is not applicable to any degree requirement.

NS 610 6 Credits

ADVANCED NURSING I THEORY AND PRACTICUM (4+8)

Analysis of nursing process applied to individuals, group and communities. Study of assessment of health and disease through epidemiological, developmental and ecological perspectives. Application of nursing process in direct client care with groups and communities. Community diagnosis. Concurrent NS 640.

NS 612 6 Credits

ADVANCED NURSING II THEORY AND PRACTICUM (3+12)

Study of the practice of nursing, and psych/socio/economic/cultural constructs for nursing intervention directed toward attainment, improvement and maintenance of health; anticipatory guidance, community programs. Prerequisite: NS 610, NS 640.

NS 614 4 Credits

ADVANCED NURSING III SEMINARY AND PRACTICUM (2+8)

Permits in-depth study and expert practice in complex settings with emphasis on management and evaluation. Prerequisites: NS 610, 612, 640

NS 616 3 Credits

ADVANCED NURSING IV SEMINAR AND PRACTICUM (1+8)

Concentration designed to integrate, synthesize and appraise roles and relationships with primary focus on consultation, collaboration and research. Prerequisites: NS 610, 612, 614, 640

NS 620 3 Credits

CONCEPTUAL FRAMEWORKS AND THEORY IN NURSING (3+0)

Analysis of nursing theory constructs and methodology relevant to practice. Critical evaluation and application of research findings.

NS 621 1 Credits

NURSING RESEARCH SEMINAR I (2+0)

Preparation of proposal for study. Prerequisite: NS 620, 622 or instructor permission.

NS 622 3 Credits

THEORY VERIFICATION IN NURSING (3+0)

Identification of problems for study, exploration of appropriate methods for investigation. Application of scientific method to nursing care, administrative and/or teaching problems. Prerequisite: NS 620 or permission of instructor.

NS 623

1 Credit

NURSING RESEARCH SEMINAR II (2+0)

Applied methodology (computer). Prerequisite: NS 620, 622, 621 or instructor permission.

NS 624

1 Credit

THESIS SEMINAR (2+0)

Prerequisite: NS 621 or instructor permission.

NS 632

2 Credits

ROLE DEVELOPMENT IN NURSING EDUCATION

(2+0)

Application of learning theory and curriculum development germane to the teaching of nursing.

NS 634

2 Credits

ROLE DEVELOPMENTS IN NURSING ADMINISTRATION (2+0)

Application of management and administrative principles in nursing.

NS 636

2 Credits

SEMINAR-PRACTICUM TEACHING (2+4)

Prerequisite: NS 632 or instructor permission

NS 638

2 Credits

SEMINAR-PRACTICUM ADMINISTRATION (2+4)

Prerequisite: NS 634 or instructor permission

NS 640

4 Credits

HEALTH CARE IN SOCIAL CONTEXT (4+0)

Analysis of concepts of community, organizations, power and authority, decision making, change process, collaboration, management, administration, and organization, with particular application to the role of the professional nurse as a change agent and advocate of the patient/client within the health care and social systems.

NS 642

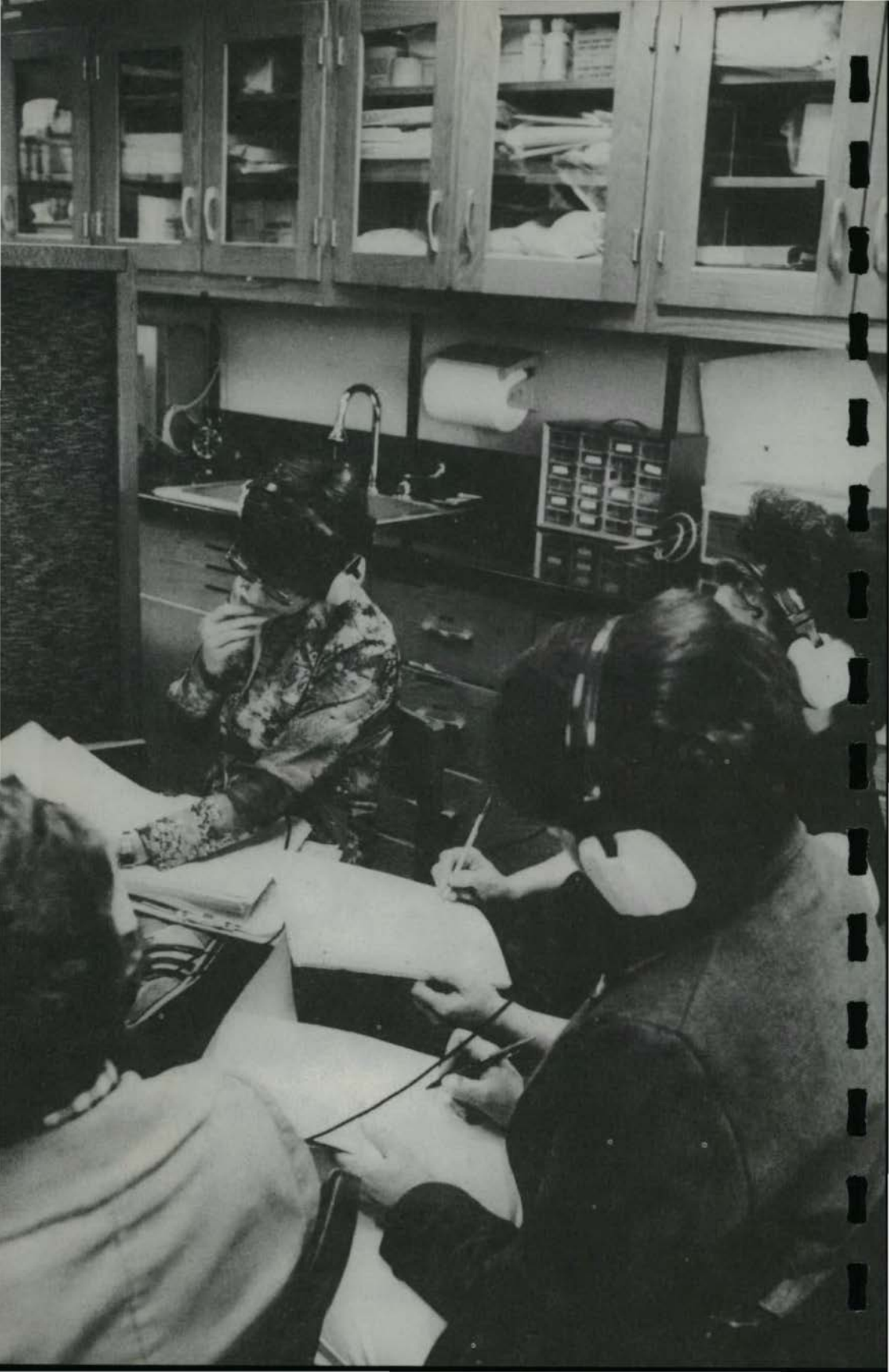
2 Credits

PROFESSIONAL NURSING IN PERSPECTIVE (2+0)

Analysis of current issues and future trends and forces which influence nursing with special attention to leadership within nursing.

Additional information concerning nursing electives can be obtained in the School of Nursing prior to registration.





JUSTICE CENTER

Faculty

Director: John E. Angell, Professor
 Professors: Stephen Conn, John E. Havelock
 Associate Professor: Roger V. Endell, Knowlton W. Johnson
 Instructor: Douglas Barry

The Justice Center has a unique responsibility in the University for integrated research and educational programs related to crime, law and the administration of justice in Alaska. The Center faculty members have equal responsibility for research, community service and teaching. Students majoring in a justice degree program can expect to be involved in research and community service projects during their undergraduate academic programs.

The Justice academic program offered by the Justice Center has been designed for students whose plans for the future include a substantial policy interest or career in police, correctional or legal studies areas. The curriculum is organized to provide students with both broad educational preparation for successful citizenship and specialized knowledge related to the administration, evaluation and improvement of the justice system and its operations.

The Justice baccalaureate degree program satisfies the educational prerequisites for a variety of operational, administrative, research, planning and teaching positions related to the justice area. In addition, those baccalaureate graduates with records of high achievement will be able to continue their educations in advanced justice graduate and professional schools.

Degree Requirements

The Justice Center offers a Bachelor of Arts degree with a major in Justice. A student majoring in Justice may elect to obtain an 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 45-49) 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 required.

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 Org & Mgmt (Spring)	3
Just 330 — Just & Society (Fall)	3
Just 360 — Just Processes (Spring)	3
Just 451 — Research & Policy Making (Fall)	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

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

Just 110

3 Credits

INTRODUCTION TO JUSTICE (3+0)

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)

Just 203/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 and treatment procedure. Prerequisite: Soc 101 or permission of instructor. (BA-S)

Just 210

3 Credits

PRINCIPLES OF CORRECTIONS (3+0)

An introduction to the basic concepts of probation and parole; the use of authority in corrective services; institutional methods, a study of

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popular and professional concepts in corrections. Prerequisites: Just 110, Just 251.

Just 215 3 Credits **PARALEGAL STUDIES (3+0)**

A foundation course for the legal studies area. Explores role, responsibilities, and ethics of paralegal activities and the relationship of paralegals to lawyers. Areas of paralegal responsibilities studies include statute and regulation formats, litigation, insurance, probate and real estate. Interviewing, investigation writing and the application of social science techniques to paralegal problems will be covered. Prerequisites: Just 110, Just 250.

Just 221 3 Credits **JUSTICE ORGANIZATION AND MANAGEMENT (3+0)**

Survey of organization and management of police, court, correctional and legal operations; agency roles, goals, structural arrangements and administrative practices; applicability of theory and research; techniques and instruments of organization and management; principles of change. Prerequisite: Just 110. (BA-S) (Offered Spring semester)

Just 250 3 Credits **DEVELOPMENT OF LAW (3+0) (Spring)**

Study of underlying philosophy, development and structure of law with emphasis on law system of United States and Alaska. Includes "Civil" precedents of such Constitutional provisions as "due process" and "equal protection" in the United States Bill of Rights, criticisms of law; review of Native law ways; procedures for changing law. Prerequisite: Just 110 (BA-S). (Offered Spring semester)

Just 251 3 Credits **CRIMINOLOGY (3+0) (Fall, Spring)**

The study of deviant behavior and theories of crime causation and their relationship to society, law and law enforcement. Prerequisite: Just 110 (BA-S) (Offered Fall and Spring Semesters.)

Just 252 3 Credits **SUBSTANTIVE CRIMINAL LAW (3+0)**

A study of the elements, purposes, and functions of the substantive criminal law with emphasis upon historical and philosophical concepts. Prerequisites: Just 110, Just 250.

Just 254 3 Credits **PROCEDURAL CRIMINAL LAW (3+0)**

Emphasis upon the legal limitations of the police and the right of the people to be secure from the government under the protection of the Constitution and the Rules of Evidence. Prerequisites: Just 110, Just 250.

Just 256 3 Credits **LEGAL ANALYSIS AND WRITING (3+0)**

Introduction to Legal research methods 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.

Just 285 3 Credits **RIGHTS OF OFFENDERS (3+0)**

A study of cases in which prisoners' rights have been defended, including parole, post release disabilities, rehabilitation, and jail conditions. Prerequisites: Just 110, Just 250.

Just 330 3 Credits **JUSTICE & SOCIETY (3+0) (Fall)**

The evolutionary influence of ideology, technology and social interests on the justice system. The dynamic impact of long-term emerging concepts such as "equality" and "privacy" will be viewed against the background of requirements of political and economic organization. Prerequisite: Justice 110 or permission of the instructor. (BA-S)

Just 331/BA 331 3 Credits **BUSINESS LAW I (3+0)**

A survey of basic institutions, litigation, judicial process, dispute resolution and preventive law; substantive law of torts, agency, con-

tracts and the uniform commercial code including sales, negotiable instruments and secured transactions.

Just 332/BA 332 3 Credits **BUSINESS LAW II (3+0)**

The law of business organizations, business crimes, employment, landlord-tenant, and real property.

Just 350 3 Credits **CONTEMPORARY CORRECTIONAL ISSUES (3+0)**

A survey course designed to acquaint the student with policy formulation problems related to both traditional and modern concepts of correctional programming. The roles of the executive, legislative and judicial branches of government in determining correctional policy as well as the roles of the community, the media and special interest groups are examined. Rehabilitative program alternatives are explored in relationship to the need for protecting the public and deterring crime. Prerequisite: Just 110.

Just 360 3 Credits **JUSTICE PROCESSES (3+0) (Spring)**

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 Spring semester) (BA-S)

Just 365 3 Credits **COMPARATIVE JUSTICE SYSTEMS (3+0)**

Justice systems are examined on a global basis, in contrast with American justice systems, as a basis for a comparative approach to present-day national and international problems in crime and the administration of justice. Varying approaches, continental, Anglo-American and eastern, to policing, corrections, legal systems and social order are reviewed and evaluated. (BA-S)

Just 370 3 Credits **JUDICIAL POLICY AND COURT ADMINISTRATION (3+0)**

A review of the Alaska court system, its problems, management, policies and procedures. Analysis of issues related to court operations and policies and alternatives to the current situation. Prerequisites: Just 110, Just 221.

Just 375 3 Credits **LITIGATION (3+0)**

Forms of dispute settlement with emphasis on negotiative processes, mediation, arbitration, settlement in the legal context, litigation, the management of discovery, trial and evidence. Just 110 or permission of instructor.

Just 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.

Just 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.

Just 388 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.

Just 413/JPC 413**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.

3 Credits**Just 435/PS 435****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.

3 Credits**Just 436/PS 436****COURTS AND CIVIL LIBERTIES (CONSTITUTIONAL LAW II) (3+0)**

Origin and development of civil and political liberties; responsibility of branches of government and people for their maintenance. Cases and literature bearing on protection of constitutionally guaranteed rights with particular reference to period since 1937. (BA-S)

3 Credits**Just 440****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.

3 Credits**Just 451****RESEARCH AND POLICY MAKING (3+0) Fall**

An overview of social research methods and procedures as related to justice policy development, implementation and assessment. Students are exposed to the policy making process, qualitative and quantitative information producing tools, research utilization strategies and research proposal writing. Prerequisite: Justice 110 (offered fall semester) BA-S

3 Credits**Just 452****EVALUATION RESEARCH AND CHANGE (3+0) Spring**

Application of evaluation research to the policy making process. Presented are evaluative research strategies including monitoring, process evaluation, cost-benefit analysis and impact evaluation. Special attention is given to designing evaluation projects, analyzing and interpreting results, preparing and presenting evaluation research reports in the justice field. Prerequisite: Justice 451 or a Research Methods course. (Offered Spring semester) (BA-S)

3 Credits**Just 455****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.

3 Credits**Just 456/Anth 456****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

3 Credits

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)

Just 462**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.

3 Credits**Just 465****LEGISLATION (3+0)**

Relationship of ordering words and procedural language to policy objectives. Drafting and interpretation of rules, regulations, ordinances. Legal system design.

3 Credits**Just 470****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.

3 Credits**Just 475****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.

3 Credits**Just 480****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.

3 Credits**Just 487****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.

3 Credits**Just 488****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 451 or equivalent.

1-6 Credits**Just 491****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.

3 Credits



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.

AMUNDSEN, CHERYL L., Instructor, School of Education. University of Washington, B.A. '72; University of Alaska, Anchorage, M.Ed. '79.

ANGELL, JOHN E., Professor, Director, Justice Center. Michigan State University, B.S. '65; M.S. '67; Ph.D. '75.

ARMSTRONG, MYRNA, Assistant Professor, School of Nursing. DePaul University, B.S.N. '69; DePaul University, M.S. '72.

AUFRECHT, STEVEN E., Assistant Professor of Public Administration, School of Business and Public Administration. University of California at Los Angeles, B.A. '67; University of Southern California, M.P.A. '73; Ph.D. '77.

BARRY, DOUGLAS K., Instructor, Director for Community Education, Justice Center. California State University, B.A. '74; The Royal College of Art, Post Graduate Studies, '75; University of London, Sp. Post Graduate Seminar.

BARING-GOULD, MICHAEL D., Associate Professor, Sociology, College of Arts and Sciences. Williams College, B.A. '59; Instituto Interamericano de Ciencias Agrícolas, M.S. '65; Cornell University, Ph.D. '74.

BEBEY, FRANK, Assistant Professor, Theater and Speech, College of Arts and Sciences. King's College, B.A. '64; Pennsylvania State University, M.A. '66.

BEIRNARD, CHARLES, Assistant Professor, English, College of Arts and Sciences. University of Wisconsin, B.S. '65; M.S. '66; Ohio State University, Ph.D. '79.

BELDEN, GEORGE R., Assistant Professor, Music, College of Arts and Sciences. Bethany College, B.M. '61; University of Northern Colorado, M.A. '72; North Texas State University, D.M.A. '76.

BERTHOLF, CONSTANCE, Assistant Professor, School of Nursing. University of California, B.S. '70; M.S. '72.

BESH, THOMAS K., Head Ski Coach, Assistant Prof. in Physical Education and Ski Coach, School of Education. Western State College, B.A., '71; University of Alaska, Fairbanks, M.Ed., '77.

BILLAUD, JEAN-PAUL, Professor, Chairman, Music, College of Arts and Sciences. Ecole Normale de Musique de Paris, Diplome Superieur de Virtuosite, '55; License de Concert, '56; International Competitions Laureate: "Viotti" (Italy), '56; Paris, '57.

BLISS, Duey, Instructor, School of Nursing. University of Michigan, B.S., '71; California State University, Long Beach, M.S., '77.

BROADY, SYLVIA, Associate Professor, Chairman, Journalism and Public Communications, College of Arts and Sciences. Michigan State College, B.A. '48; Wayne State University, M.E. '56; Michigan State University, Ph.D. '62.

BROSAMER, JAMES J., Associate Professor, English, College of Arts and Sciences. Seattle University, B.A. '63; University of California, Berkeley, M.A. '66; University of Oregon, D.A. '70; Ph.D. '76.

BRUCE, RICHARD L., Professor, Psychology, College of Arts and Sciences. Whitman College, B.A. '60; Claremont Graduate School, M.A. '63; Ph.D. '67.

BRUNS, LINDA D., Head Women's Basketball Coach, Assistant Professor, School of Education. University of Montana, B.S. '64; Eastern Washington State College, M.A. '68.

BUKOWSKI, ARTHUR, Associate Professor, Mathematics, College of Arts and Sciences. Ohio University, B.S. '66; M.S. '68; University of New Mexico, Ph.D. '72.

BYRD, L. BRIAN, Associate Professor, English, College of Arts and Sciences. University of Miami, A.B. '48; George Peabody College, M.A. '51; University of Colorado, Ph.D. '69.

CAREY, OMER L., Professor, Business Administration, School of Business and Public Administration. Illinois, Wesleyan University, B.A. '54; Indiana University, M.B.A. '60; D.B.A. '62.

CARMON, BERNICE, Instructor, School of Nursing. Bennett College, Greensboro, NC, B.S. '71; University of North Carolina — Chapel Hill, NC, M.P.H. '72; Case Western Reserve University, Frances P. Bolton School of Nursing, B.S.N. '77.

CARROLL, MARY, Associate Professor of Social Work, College of Arts and Sciences. Loyola University of Chicago, B.S. '61; Smith College, Ph.D. '70.

CHANG, TOHSOOK P., Assistant Professor, Library Science, Cataloging Librarian, University Library. Ewha Womans University, Seoul Korea, B.A. '59; University of New York, M.L.S. '63.

CHRISTIENSEN, KELVIN H., Head Hockey Coach, Instructor, School of Education. Alaska Methodist University, B.S. '72; Alaska Pacific University, M.A. '80.

CLAPPER, SANDRA, Instructor, School of Nursing. Ohio State University, B.S. '72; University of Utah, M.S. '76.

CLARK, LEROY, Associate Professor, Theater and Speech, College of Arts and Sciences. University of Maine, B.A. '66; University of Oklahoma, M.F.A. '66; Kent State University, Ph.D. '76.

CONN, STEPHEN, Professor, Director for Bush Justice, Justice Center. Colgate University, B.A. '64; Columbia University School of International Affairs, M.I.A. '68; Columbia University Law School, J.D. '68; University of California at Los Angeles, M.A. '77.

COOKE, JOSEPHINE H., Associate Professor, Art, College of Arts and Sciences. University of California, B.A. '59; University of Minnesota, M.A., '61; University of Oregon, Ph.D. '74.

CROMER, FRED E., Assoc. Professor, Mathematical Sciences, College of Arts and Sciences. University of Nebraska, Lincoln, B.S. '66; Harvard University, M.A.T. '67; George Peabody College, Ph.D. '71.

DELAPP, TINA, Associate Professor, School of Nursing. Arizona State University, B.S.N. '69; University of Colorado, M.S. '72.

DICKASON, OSCAR E. "GENE", Director, School of Engineering, Professor, Environmental Quality Engineering. Princeton University, B.S.E. '59; Stanford University, M.S.E. '61; Stanford University, Ph.D. '70.

DOUTHAT, DARYL, Assistant Professor, Chemistry and Physics, College of Arts and Sciences. Pennsylvania State University, B.S. '65; University of Chicago, M.S. '72; Ph.D. '74.

DOWRICK, PETER, Assistant Professor, Psychology, College of Arts and Sciences. Victoria University of Wellington, B.S. '66; University of Auckland, M.S. '71; Trinity College London, ATCL '71; University of Auckland, Ph.D. '77.

DOYLE, MARIE C., Professor, Psychology, College of Arts and Sciences. University of Utah, B.A. '50; Ph.D. '61.

EARLE, JAMES, Assistant Professor, Business Administration, School of Business and Public Administration. Mississippi State University, B.S. '61; University of Arkansas, M.B.A. '78; University of Florida, Ph.D. '80.

ENDELL, ROGER V., Associate Professor, Director for Continuing Professional Development, Justice Center. University of Alaska, B.Ed. '66; M.Ed. '69.

ENDER, RICHARD L., Associate Professor, Public Administration, School of Business and Public Administration. Kearney State, B.A. '67; Syracuse University, Ph.D. '76.

ESCHENBACH, THEODORE G., Associate Professor, Engineering Management. Purdue University, B.S. '71; Stanford University, M.S. '73; Ph.D. '75.

EVANS, SARA ANN, Instructor, School of Nursing. Florida State University, B.S.N. '71.

FELDMAN, KERRY D., Professor, Anthropology, College of Arts and Sciences. University of Colorado, M.A. '70; Ph.D. '73.

FREDERICK, SARADELL A., Professor, Art, College of Arts and Sciences. Asbury College, B.A. '42; University of Michigan, M.A. '43; Columbia University, D.Ed. '70.

FRENCH, JOHN, Assistant Professor, Chemistry, College of Arts and Sciences. Oberlin College, B.A. '71; University of Michigan, Ph.D. '79.

GRAY, KEN, Assistant Professor, Art, College of Arts and Sciences. Southend-on-Sea Municipal College, National Diploma in Civil Engineering with Distinction, '64; Brighton Polytechnic, B.A. '73; Royal College of Art, London, M.A. '76.

GREEN, G. HAYDEN, Professor, Business Administration and Real Estate, School of Business and Public Administration. Northern Arizona University, B.A. '63; Pepperdine University, M.B.A. '69; University of Arkansas, Ph.D. '74.

GREER, MARGARET S., Associate Professor, School of Education. Texas Women's University, B.A. '48; University of New Mexico, M.A. '66; Ed.D. '69.

HAINES, LEWIS E., Professor, Education, School of Education. Middlebury College, B.A., '43; Columbia Teachers College, M.A. '50; Washington State University, Ph.D. '60.

HALE, JANET, Assistant Professor, School of Nursing. Russel Sage College, B.S. '68; Michigan University, M.A. '78.

HANNI, BLAINE, Associate Professor, School of Education. Central Washington State, B.S. '57; University of Utah, M.S. '62; University of Oregon, Ed.D. '65.

HARRINGTON, JOHN P., Associate Professor, Chairman, Chemistry, College of Arts and Sciences. Catholic University of America, B.A. '64; Fordham University, Ph.D. '74.

HARTZLER, H. RICHARD, Dean, School of Business and Public Administration, Professor. Indiana University, A.B., '50; Indiana University, J.D., '55.

HAVELOCK, JOHN E., Professor, Director of University of Alaska Legal Studies, Justice Center. Harvard College, B.A. '56; Harvard Law School, J.D. '59.

HAYCOX, STEPHEN W., Associate Professor, History, College of Arts and Sciences. Seattle University, B.A. '66; University of Oregon, M.A. '67; Ph.D. '71.

HENRY, NANCY G., Associate Professor, School of Education. Carson Newman College, B.A. '56; University of North Dakota, B.A. '65; University of Alaska, M.Ed. '69.

HILL, PERSHING J., JR., Assistant Professor, Economics, School of Business and Public Administration. Idaho State University B.A. '67; Washington State University Ph.D. '76.

HILPERT, JOHN M., Professor, Engineering Management. Oregon State University, B.S. '38; George Washington University, M.A. '47; University of Iowa, Ph.D. '56.

HITCHINS, DIDDY R.M., Associate Professor, Political Science, College of Arts and Sciences. University of Southampton, England Southampton, England, B.Sc. (Soc. Sci.) '67; University of Essex, England, M.A. '69; Ph.D. '75.

HODO, BETTY L., Associate Professor, Associate Dean, Undergraduate Program, School of Nursing. State University of Iowa, B.S.N. '56; M.A. '64.

HOOD, MICHAEL J., Associate Professor, Chairman, Theater and Speech, College of Arts and Sciences. Arizona State University, B.A., '72; University of New Orleans, M.A. '75; M.F.A. '75.

HOTCHKISS, JAMES M., Acting Dean. Professor, School of Education. University of Wichita, B.A. '53; University of Southern California, Ph.D. '66.

HOUSE-DARDEN SUSAN, Assistant Professor, School of Nursing. University of Central Arkansas, B.S., '75; M.S.N. '78.

INNES-TAYLOR, CATHERINE, Assistant Professor, Library Science, Acquisitions Librarian, University Library. Western Washington State College, B.Ed. '65; University of Oregon, M.L.S. '71.

JACOBS, WILLIAM ADAM, Associate Professor, Chairman, History, College of Arts and Sciences. Wisconsin State University, Eau Claire, B.S. '66; University of Oregon, M.A. '68, Ph.D. '72.

JANKE, JILL, Instructor, School of Nursing. University of Utah, B.S.N. '73; Montana State University, M.S. '81.

JOHNSON, MARILYN K., Associate Professor, School of Education. University of Arizona, B.A. '66; M.Ed. '67; Ph.D. '73.

JOHNSON, KNOWLTON W., Associate Professor, Justice Center. Clemson University, B.S. '64; Michigan State University, M.S. '69; Ph.D. '71.

JOHNSON, STANLEY, Acting Vice-Chancellor for Academic Affairs, Professor, Education, Graceland College, A.A. '48; Whitworth College, B.A. '50; University of Missouri, M.Ed. '56; University of Nebraska, Ed.D. '62.

JOHNSON, STEPHEN, Associate Professor, Political Science, College of Arts and Sciences. Washington State University, B.A. '67; University of Washington, M.A. '70; Ph.D. '76.

JONES, GARTH N., Professor, Public Policy and Administration, School of Business and Public Administration. Utah State University, B.A. '47; University of Utah, M.A. '48; Ph.D. '54.

JUNGE, DAVID C. "DAVE", Associate Professor, Mechanical Engineering, School of Engineering. Stanford University, B.S. '62; Oregon State University, Ph.D. '71.

KAPPES, BRUNO MAURICE, Assistant Professor of Psychology, College of Arts and Sciences. University of Missouri, B.A., '73; University of Missouri, M.A., '75; Kansas State University, Ph.D., '78.

KENNISH, JOHN M., Assistant Professor, Chemistry, College of Arts and Sciences. Rutgers University, A.B. '67; Shippensburg State College, M.S. '73; Portland State University, Ph.D. '78.

KIM, JOHN CHOON, Assistant Professor, Public Administration, School of Business and Public Administration. Kyung Hee University, B.A. '63; University of Southern California, M.A. '71; Ph.D. '78.

KIMURA, SAM, Assistant Professor, Chairman, Art, College of Arts and Sciences. Art Center College of Design, B.P.A. '55.

KLEINKAUF, CECILIA M., Assoc. Professor, Chairman, Social Work, College of Arts and Sciences. Colorado State University, B.A. '58; University of Denver, M.S.W. '67.

KUDENOV, JERRY D., Assistant Professor, Biology, College of Arts and Sciences. Foothill College, A.A. '66; University of California, B.A. '68; University of the Pacific, M.S. '70; University of Arizona, Ph.D. '74.

KULLBERG, RICHARD W., Associate Professor, Chairman, Biology, College of Arts and Sciences. University of Oregon, B.S. '67; McGill University, M.S. '68; Ph.D. '74.

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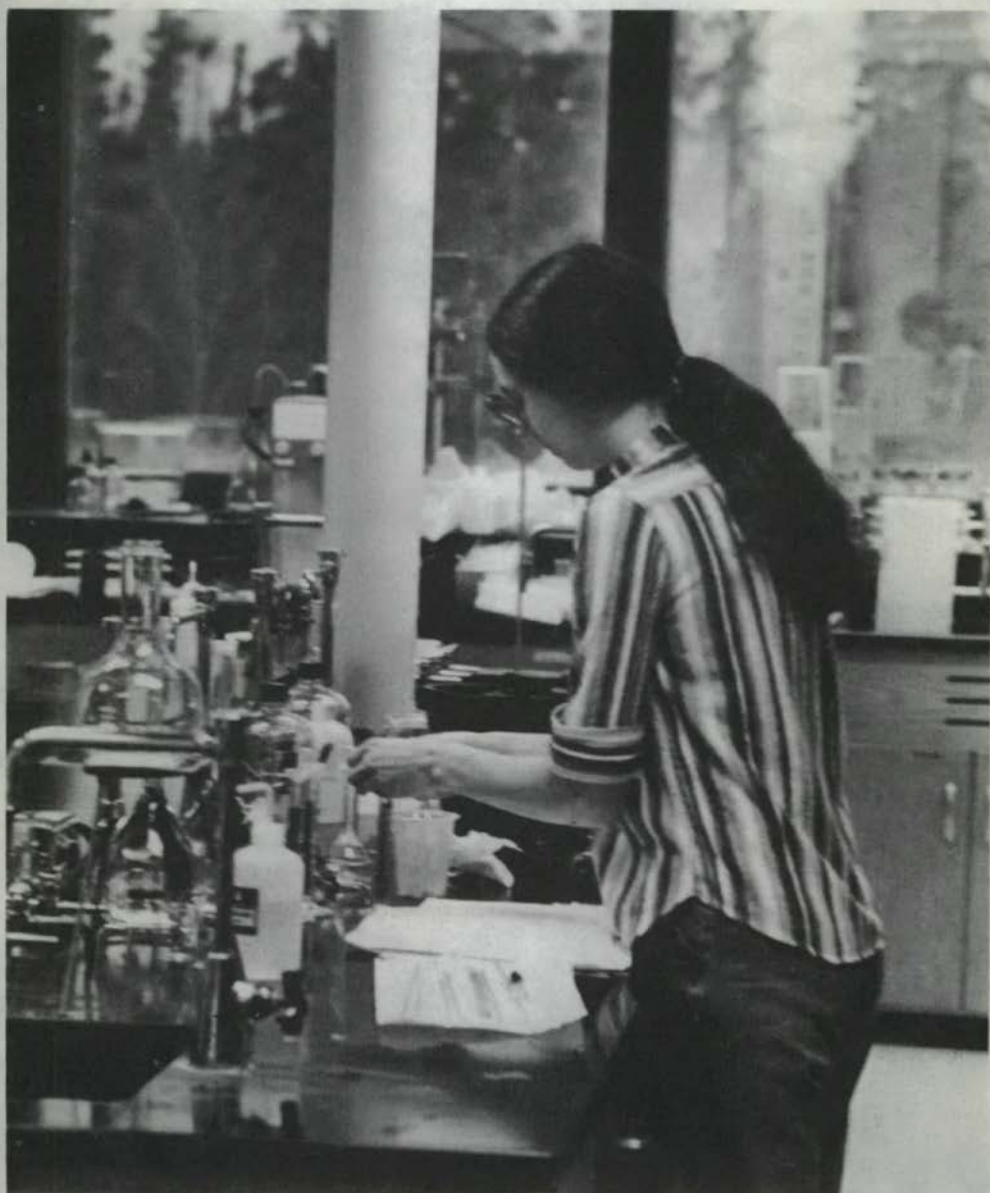
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