FORMAL ADMISSION TO UNDERGRADUATE PROGRAMS

Students who wish to earn vocational certificates, associate degrees, or baccalaureate degrees must apply and be formally admitted to the individual programs. Students may apply for initial admission as undeclared majors. However, they must still be formally accepted by their specific major department before completing any degree or certificate program. To be eligible for graduation, a student must be formally admitted a minimum of one semester prior to applying for graduation.

FRESHMEN

First-time degree-seeking freshmen and those degree-seeking applicants with fewer than 30 college-level semester credits must submit official high school transcripts (or GED scores) and official copies of ACT or SAT test scores along with the application for admission. Freshmen applying to associate or certificate programs are encouraged to take the ASSET placement test. In addition, freshmen who have earned credits at other regionally accredited colleges and universities must submit official transcripts from all institutions previously attended.

SOPHOMORES, JUNIORS, AND SENIORS

Applicants with 30 or more college-level semester credits must submit official transcripts from all regionally accredited colleges and universities previously attended.

TRANSFER STUDENTS

At the time of formal admission to degree-seeking status, transfer students must declare and submit official transcripts from all colleges and universities previously attended.

Transcripts are evaluated to determine if the credits are applicable to a degree program at UAA. Only transcripts from regionally accredited institutions declared at the time of application for admission are considered for transfer evaluation.

Students who have received a baccalaureate degree from another regionally accredited college or university and who want to obtain a baccalaureate degree from UAA must:

1. Meet admission requirements.
2. Complete the Undergraduate General University Requirements but not the General Education Requirements.
3. Complete all school/college requirements, if applicable and the Major Program Requirements.

INTERNATIONAL STUDENTS

Students who wish to transfer college-level course work from international institutions must submit official transcripts and English translations (if necessary) as well as an official statement of educational equivalency from a recommended international credentials evaluation service. Lists of such services may be obtained from Enrollment Services. Fees depend upon the type and complexity of the evaluation.

International students (F-1) who wish to apply for the United States Department of Justice, Immigration, and Naturalization Services Certificate of Eligibility for Non-Immigrant Students (Form I-20A) must do all of the following:

1. Meet University admission requirements for degree-seeking students and be accepted to a program.
2. Submit an official TOEFL (Test of English as a Foreign Language) score of at least 450.
3. Submit a statement of financial support for the anticipated period of study.
4. Provide official transcripts and a statement of educational equivalency from a recommended credentials evaluation service.

To be issued an I-20A, international students must be formally admitted, full-time, degree-seeking students, even if their major is undeclared. Contact the International Student Advisor in Enrollment Services for details.

These requirements apply only to students who are requesting a Form I-20A Student Visa. Other international students may enroll under the Open Enrollment or Formal Admission policy.

Health insurance is mandatory for international students on student visas.

RETURNING STUDENTS

As an admitted, degree seeking student who has had a break in attendance at UAA but has not attended another institution (outside of the UAsystem) and are still within the catalog year limitations of your admittance, you may update your admission status. An Update of Admission Status form is available at Enrollment Services. Your admission will be brought forward to the current semester, but your previous catalog year will remain the same. Departments reserve the right to refuse a student readmittance into their programs.

As an admitted, degree seeking student who never attended UAA during or following the semester of admittance and did not attend another institution (outside the UAsystem) and are still within the catalog year limitations of your admittance, you may update your admission status. An Update of Admission Status form is available at Enrollment Services. You must complete and return this form to Enrollment Services for processing. You will be re-admitted to the current catalog year. Departments reserve the right to refuse a student readmittance into their programs.

An admitted degree-seeking student who attends another institution (outside the UAsystem) following the semester of admission is not eligible for an update of admission status unless one or more of the following criteria have been met:

- Prior department approval via petition to take classes at another institution(s).
- Enrollment at outside institution was concurrent with UAA enrollment.
- Enrollment occurred during summer semester.
- Enrollment was correspondence courses.
- Student participated in a National or International Student Exchange.
- Student is participating in the SOCNAV/SOCAD military programs.
- Outside institution was unaccredited at time of attendance.
- Outside institution was Community College of the Air Force or Regents College.

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EXCEPTIONS FOR ASSOCIATE DEGREE AND CERTIFICATE SEEKING STUDENTS

Returning adult students who have been out of high school for 10 years or more may elect not to submit high school transcripts if they wish to attend as associate or certificate seeking students; however, they must complete the Ability to Benefit process through the Advising and Counseling Center.

After successful completion of 30 semester credits, students may apply, at no additional charge, for a change of admission status from the associate or certificate level to the baccalaureate level. Students will be subject to the baccalaureate degree admission requirements, as well as specific program admission requirements.

TRANSCRIPTS AND TEST SCORES

When transcripts or test scores are required, they must be official documents submitted directly from the issuing high school, college, university, or testing agency to Enrollment Services. Students may hand carry documents only if they are still in original sealed envelopes from issuing institutions. The University cannot accept student copies of transcripts or test scores.

All transcripts, test scores, and other supporting documents submitted for admission or transfer credit evaluation become the property of the University. They cannot be reissued or copied.

PRE-MAJOR STATUS

Students applying to certain programs that have limited space and/or highly selective admission criteria may be initially admitted to a pre-major status within that program. Admission to pre-major status does not guarantee subsequent admission to the major. Students admitted to this status should contact their program advisor at the earliest opportunity for further information about the program’s special requirements and for guidance in selecting appropriate classes. Students admitted initially to pre-major status must first satisfy all requirements for formal admission to the major and then complete the “Change of Major” process, changing from pre-major to the program itself. Such changes will not affect a student’s degree requirements or catalog year. Students still must satisfy the degree requirements in effect at the time of original admission to pre-major status, unless they change major and degree intentions completely.

DECLARING AND CHANGING MAJORS AND DEGREE PROGRAMS

Once formally admitted and in attendance, students may request to change their major or degree program to another program at the same level (i.e. associate to associate, baccalaureate to baccalaureate) through the Change of Major/Degree process. Students admitted initially in undeclared or pre-major status may declare a major or degree program through this process as well. Students must meet the specific admission requirements of their new program, and must be formally accepted to the program by signature of the Dean or Department Chair.

Students wishing to change from an associate program to a baccalaureate program (or vice versa) must formally apply for admission to the new level.

Students must follow established UA procedures for declaring a major and, if necessary, for changing a major or degree. Students who change their major or degree must satisfy the catalog requirements for the new major or degree in effect at the time of the change.

CERTIFICATE AND ASSOCIATE DEGREE PROGRAMS ADMISSION REQUIREMENTS

Most certificate and associate degree programs operate under an open admission policy. To qualify for admission to associate degree or vocational certificate-seeking status, a student must:

1. Have earned a high school diploma or the equivalent (GED), or
2. Be 18 years of age or older and have participated in UAA’s Assessment and Advisement process as explained in Chapter 2.

APPLICATION FORM AND FEE

Applications may be obtained from Enrollment Services. A non-refundable application fee of $35 must be submitted with each application.

Some certificate and associate programs have additional requirements. Consult the individual program sections of this catalog.

ADMISSION ON PROBATION TO ASSOCIATE DEGREE-SEEKING STATUS

Some associate degree programs, such as Auto Diesel Technology, Aviation Maintenance Technology, Dental Assisting, Dental Hygiene, Medical Assisting, Medical Laboratory Technology, Nursing, and Geomatics, have admission requirements beyond the open admission requirements. Students applying to these programs may initially be admitted to pre-major status or they may be admitted on probation by the department. Pre-major status does not guarantee subsequent admission to the major. Students admitted on probation may be dismissed from the program if they do not perform satisfactorily. Consult the degree program sections of this catalog for more information.

BACCALAUREATE DEGREE PROGRAMS ADMISSION REQUIREMENTS

To qualify for initial admission to baccalaureate degree-seeking status, a student who is 18 years of age or older, must satisfy at least one of the following:

1. Graduation from an accredited high school with a grade point average of at least 2.50 (C+), and completion of either the SAT or ACT test, or
2. Successful completion of the GED and completion of either the SAT or ACT test, or
3. Graduation with an associate degree from a regionally accredited institution, or
4. Completion of at least 30 college-level semester credits with a grade point average of at least 2.00 (C).

These criteria do not apply to students who have been removed from baccalaureate degree-seeking status at UAA. (See Reinstatement, Chapter 8).
Some baccalaureate programs have additional or higher requirements than the minimums listed above. Consult the undergraduate programs for more specific information. Applicants who do not meet the higher requirements may initially be admitted in an undeclared or pre-major status provided they meet the minimum requirements for admission to the baccalaureate level. Admission to undeclared or pre-major status does not guarantee subsequent admission to a specific degree program. Such students are encouraged to contact their program advisor at the earliest opportunity for further information and guidance.

**ADMISSION ON PROBATION TO BACCALAUREATE DEGREE-SEEKING STATUS**

In exceptional circumstances, students may be admitted to baccalaureate degree-seeking status on probation. Generally, students in the following categories may be admitted on probation:

1. High school graduates with a high school GPA of 2.00 through 2.49, or
2. Transfer students with a collegiate GPA of 1.75 through 1.99.

In most cases, students on probation are admitted as undeclared majors only. Before they may declare a major through the Change of Major process, they must meet the individual program’s admissions requirements.

**GENERAL UNIVERSITY REQUIREMENTS FOR UNDERGRADUATE PROGRAMS**

General University Requirements have been established for all certificate and degree programs at UAA. Students must complete them in addition to specific certificate and major requirements stated in the program section of this catalog.

**GENERAL UNIVERSITY REQUIREMENTS FOR CERTIFICATES**

In addition to specific certificate requirements stated in the program section of this catalog, the following requirements must also be met in order to obtain a certificate:

1. When completing the last half of a certificate program, students must earn at least 50 percent of the credits in residence. For example, in a 30-credit certificate program, at least 8 of the last 15 must be resident credits. Additional residency credit requirements, to meet program accreditation standards, may be established.
2. Students must earn a cumulative GPA of at least 2.00 (C) at UAA. Some certificate programs require higher GPAs.
3. Students must earn a minimum of 30 credits for an official transcripted certificate.
4. Students may elect to graduate under the requirements of the catalog in effect at the time of formal acceptance to a certificate program or the catalog in effect at the time of graduation.
5. If the requirements for a certificate as specified in the entry-level catalog are not met within 5 years of formal acceptance, the program will expire and the student must reapply for admission and meet the requirements in effect at the time of formal acceptance.
6. Students may earn more than one certificate by completing all requirements for each additional program.

**GENERAL UNIVERSITY REQUIREMENTS FOR ASSOCIATE DEGREES**

The Associate of Arts degree is intended to provide general education. Therefore, it includes no major specialty, and students may earn only one Associate of Arts degree. The Associate of Applied Science degree is intended to provide specialized education. Therefore, it does include a major specialty, and students may earn more than one AAS degree. The following requirements must be met for associate degrees:

1. Students must earn a minimum of 60 credits for either an Associate of Arts or an AAS degree.
2. Students must complete at least 15 credits in residence. Additional residency credit requirements, to meet program accreditation standards, may be established.
3. Students must earn a cumulative GPA of at least 2.00 (C) at UAA. They must also earn a cumulative GPA of at least 2.00 (C) in all courses required for each major. Some associate degree programs may require higher GPAs.
4. Students may elect to graduate under the requirements of the catalog in effect at the time of formal acceptance to an associate degree program or the catalog in effect at the time of graduation.
5. If the requirements for an associate degree as specified in the entry-level catalog are not met within 5 years of formal acceptance into the program, that program will expire and the student must reapply for admission and meet the requirements in effect at the time of formal acceptance.
6. For an Associate of Arts degree, students must complete a minimum of 60 credits at the 100-level or above, including at least 20 credits at the 200-level or above.
7. All courses for an Associate of Applied Science degree must be at the 100-level or above.

**CONCURRENT PROGRAMS OF STUDY**

**Double Majors.** Associate of Applied Science degree-seeking students may apply to graduate (during the same semester) with two majors, providing the degree program is the same for each major. For example, a student may select two areas from the approved majors within the Associate of Applied Science degree program (such as Welding and Automotive Technology). Students must apply and be accepted into each major program.

Students may request a double major at the time of initial admission to UAA or add a major at a later date through the Change of Major degree process. Forms are available from Enrollment Services.

Students must satisfy the General University Requirements, the General Education Requirements, and both sets of major requirements.

A double major is not applicable to the Associate of Arts Degree.

**Double Degrees.** Associate degree-seeking students may graduate (during the same semester) with two degrees provided they have applied to and been accepted in both degree programs. An Associate of Applied Science and Associate of Arts is an example of a double degree.
Students must submit a separate application for admission for each degree they expect to receive. Admission forms are available from Enrollment Services.

Associate degree-seeking students must complete the General University Requirements, the General Education Requirements for their primary program, the requirements for both major programs, and at least 12 resident credits beyond the total number of credits required for the primary degree. Students must satisfy the catalog requirements in effect at the time of acceptance into the degree program(s) or the catalog requirements in effect at the time of graduation.

SECOND ASSOCIATE DEGREE

The Associate of Arts degree is intended to provide students with the education necessary to undertake baccalaureate degree work. Due to its general intent, only one Associate of Arts degree may be earned per student.

UAA Students. Students who have received an Associate of Applied Science degree from UAA and who want to obtain another Associate of Applied Science degree must:
1. Meet admission requirements.
2. Complete at least 12 resident credits beyond the previous associate degree(s).
3. Complete the Major Program Requirements for the second degree.
4. Maintain a cumulative GPA of at least 2.00 (C) at UAA in order to graduate. Some programs may require a higher GPA in the major.

Transfer Students. Students who have received a baccalaureate degree from another regionally accredited college or university and who want to obtain an associate degree from UAA must:
1. Meet admission requirements.
2. Complete the General University Requirements but not the General Education Requirements.
3. Complete the Major Program Requirements.

ASSOCIATE OF APPLIED SCIENCE

GENERAL DEGREE REQUIREMENTS

All courses must be at the 100-level or above.

Classification Credits
1. Oral Communication Skills..........................................................3
   COMM A111, Fundamentals of Oral Communication
   COMM A235, Small Group Communication
   COMM A237, Interpersonal Communication
   COMM A241, Public Speaking
2. Written Communication Skills...................................................6
   ENGL A111, Methods of Written Communication
   and one of the following:
   CIOS A262, Written Business Communications
   ENGL A211, Academic Writing About Literature
   ENGL A212, Technical Writing
   ENGL A213, Writing in the Social and Natural Sciences
3. General Requirements.............................................................6
   Choose one or a combination of Humanities*, Math, Natural
   Sciences, or Social Sciences courses. (See Associate Degree
   Course Classifications list below.) Courses chosen must be at the
   100-level or above.
*Any English course used to satisfy the Humanities general requirement
must be different from the written communications requirement and have a
Course number higher than ENGL A111.
4. Major Specialty (See Degree Programs).................................Varies
5. Electives ............................................................................Varies
Total Minimum Credits.............................................................60

ASSOCIATE OF ARTS DEGREE REQUIREMENTS

The College of Arts and Sciences offers an Associate of Arts degree, the requirements for which are located in the College of Arts and Sciences section of this catalog.

ASSOCIATE OF ARTS

WITH BACCALAUREATE DEGREE

GENERAL EDUCATION REQUIREMENTS LINK

Associate degree students who plan to enroll in a baccalaureate degree program can maximize transferability/applicability of their credits by taking courses that satisfy the Baccalaureate Degree General Education Requirements to meet Associate of Arts degree requirements. More specific information on what courses to take can be found in the College of Arts and Sciences section of this chapter.

ASSOCIATE DEGREE COURSE CLASSIFICATIONS

Students in associate degree programs should use the following table to determine which courses meet their requirements.

Applied Studies
   Accounting
   Agriculture
   Alaska Outdoor and Experiential Education
   Applied Technology
   Architectural and Engineering Technology
   Automotive and Diesel Technology
   Aviation Technology
  Business Administration
   Civil Engineering
   Community Education
   Computer Information and Office Systems
   Culinary Arts
   Dental Assisting
   Dental Hygiene
   Dietetics and Nutrition
   Early Childhood Development
   Education
   Electrical Engineering
   Electronics Technology
   Emergency Medical Technology
   Engineering Design and Drafting
   Engineering Science
   Engineering and Science Management
   English-As-A-Second Language
   Environmental Studies
   Family and Consumer Sciences
   Fire Service Administration
Applied Studies (continued)
Fisheries Technology
Floral Design
Geographic Information Systems
Geomatics
Health
Health Education and Training
Health Sciences
Human Services
Interior Design
Journalism and Public Communications
Justice
Library Science
Mechanical Technology
Marine Technology
Medical Assisting
Medical Laboratory Technology
Nursing
Nursing Science
Occupational Safety and Health
Paralegal Studies
Paramedical Technology
Petroleum Technology
Physical Education
Refrigeration and Heating
Social Work
Technology
Vocational Education
Vocational Skills
Wastewater Treatment
Welding Technology

Humanities
Alaska Native Studies
American Sign Language
Art
Dance
Chinese
Communication
Creative Writing and Literary Arts
English
French
German
History*
Humanities
Japanese
Journalism and Public Communications (JPC A215 and A367 only)
Korean
Languages
Latin
Linguistics
Music
Philosophy
Preparatory English
Russian
Spanish
Theatre
Women’s Studies*

Math and Natural Sciences
Anthropology (ANTH A205 only)
Applied Statistics
Astronomy
Biological Sciences
Chemistry
Computer Science
Environmental Studies (ENVI A202 only)
Geography (GEOG A205 and A205L only)
Geology
Mathematics (MATH A101 excluded)
Philosophy (PHILA101 only)
Physics

Social Sciences
Anthropology
Business Administration (BAA151 only)
Counseling
Economics
Environmental Studies (ENVI A201 only)
Geography (except GEOG A205 and A205L)
Guidance
Health Sciences (HS A220 only)
History*
Human Services (HUMS A106 only)
International Studies
Journalism and Public Communications (JPC A101 only)
Justice (JUST A110 and A330 only)
Paralegal Studies (PARLA101 only)
Political Science
Psychology
Social Work (SWK A106 only)
Sociology
Women’s Studies*

*History and Women’s Studies may be used for either Humanities or Social Sciences credit, but not for both.

GENERAL UNIVERSITY REQUIREMENTS FOR BACCALAUREATE DEGREES

To receive a baccalaureate degree from UAA, students must satisfy: General University Requirements, General Education Requirements, school/college requirements, if applicable, and Major Program Requirements.

For General Education Requirements, refer to the “General Education Requirements (GER) for Baccalaureate Degrees” section of this chapter. For school/college and Major Program Requirements, refer to the appropriate school or college section of this catalog.

General University Requirements for all baccalaureate degrees are as follows:
1. Students must earn at least 120 credits. Some degree programs require completion of additional credits.
2. Students must earn at least 42 upper-division credits, including 24 upper-division credits in residence. Some degree programs require completion of additional upper division credits.
3. Students must earn at least 30 credits in residence. In addition, transfer students must earn in residence at least 12 credits in each major field and, where applicable, at least 3 credits in each minor field. Additional residency credit requirements, to meet program accreditation standards, may be established.

4. Students must earn a cumulative GPA of at least 2.00 (C) at UAA. They must also earn a cumulative GPA of at least 2.00 (C) in all courses required for each major and each minor. Some degree programs may require higher GPA’s.

5. Students may elect to graduate under the requirements of the catalog in effect at the time of formal acceptance to a baccalaureate degree program or the catalog in effect at the time of graduation.

6. If the requirements for a baccalaureate degree as specified in the entry-level catalog are not met within 7 years of formal acceptance into the program, that program will expire and the student must reapply for admission and meet the requirements in effect at the time of formal acceptance.

7. Students must follow established UAA procedures for declaring a major and, if necessary, for changing a major or degree. Students who change their major or degree must satisfy the catalog requirements for the new major or degree in effect at the time of the change.

MINORS
A minor is a component of a baccalaureate degree. A minor may only be issued simultaneously with a baccalaureate degree. A minor from UAA will consist of a minimum of 18 credits, at least 6 of which must be upper-division. Students must earn at least 3 credits in residence in each minor field. They must also earn a UAA cumulative GPA of at least 2.00 (C) in the minor. Students must follow minor requirements from the same catalog used for the baccalaureate program.

Refer to each discipline for specific requirements.

Students must declare minors no later than the deadline to submit an Application for Graduation.

CONCURRENT PROGRAMS OF STUDY

Double Majors. Baccalaureate degree-seeking students may apply to graduate (during the same semester) with two majors, providing the degree program is the same for each major. For example, a student may select two areas from the approved majors within the Bachelor of Arts degree program (such as History and Justice). Students must apply for and be accepted into each major program.

Students may request a double major at the time of initial admission to UAA or add a major at a later date through the Change of Major/Degree process. Forms are available from Enrollment Services.

Students must satisfy the General University Requirements, the General Education Requirements for the primary program, both sets of school/college requirements, if applicable, and major program requirements.

Students must satisfy the catalog requirements in effect at the time of acceptance into the major(s) or the catalog requirements in effect at the time of graduation.

Double Degrees. Baccalaureate degree-seeking students may graduate (during the same semester) with two degrees provided they have applied for and been accepted in both degree programs. A Bachelor of Education degree and a Bachelor of Arts degree are examples of double degrees.

Students must submit a separate application for admission for each degree they expect to pursue. Admission forms are available at Enrollment Services.

Baccalaureate degree-seeking students must complete the General University Requirements, the General Education Requirements for the primary program, both sets of school/college requirements, if applicable, major program requirements, and at least 24 resident credits beyond the total number of credits required for the primary degree before an additional degree can be awarded.

Students must satisfy the catalog requirements in effect at the time of acceptance into the degree program(s) or the catalog requirements in effect at the time of graduation.

SECOND BACCALAUREATE DEGREE

UAA Students. Students who have received a baccalaureate degree from UAA and who want to obtain another baccalaureate degree must:

1. Meet admission requirements.
2. Complete at least 24 resident credits beyond the previous baccalaureate degree(s).
3. Complete the school/college requirements, if applicable, and the Major Program Requirements, including any resident and/or upper-division requirements, for the second degree.
4. Maintain a cumulative GPA of at least 2.00 (C) at UAA in order to graduate. Some programs may require a higher GPA in the major.

Transfer Students. Students who have received a baccalaureate degree from another regionally accredited college or university and who want to obtain a baccalaureate degree from UAA must:

1. Meet admission requirements.
2. Complete the General University Requirements but not the General Education Requirements.
3. Complete all school/college requirements, if applicable, and the Major Program Requirements.
INTERDISCIPLINARY BACCALAUREATE DEGREES

 Upon completing at least 15 UAA credits, a student may develop an interdisciplinary BA or BS degree program. The proposed program must differ significantly from established degree programs and must not be a substitute for a regular degree program.

Interdisciplinary degree programs are not transferrable to other University of Alaska campuses.

To receive a baccalaureate degree in Interdisciplinary Studies from UAA, the student must meet General University Requirements, General Education Requirements, and School/College requirements as applicable. Major Program Requirements are established in the interdisciplinary program plan developed by the student in consultation with an advisory committee.

An interdisciplinary baccalaureate program proceeds as follows:
1. The student develops a proposal specifying the degree (BA or BS), title, and program content, including recommendations for courses to meet General Education Requirements and School/College requirements as applicable.

2. The student obtains an advisory committee of at least three faculty members from the appropriate academic disciplines. If the interdisciplinary degree program involves more than one school or college, the committee must include a faculty member from each.

3. The student obtains the assistance of one faculty member to chair the advisory committee and serve as the interdisciplinary degree program director.

4. The student presents the proposal for committee review and approval. If the committee supports the proposal, it is forwarded to the appropriate academic dean(s).

5. The dean(s) reviews the proposal, committee membership, and recommendation for degree program director. If the dean(s) approves the interdisciplinary degree program and committee structure, the degree program plan is forwarded to Enrollment Services.

6. If changes are necessary in the degree program plan, they must have written approval of the advisory committee and appropriate dean(s).

7. The student works with the advisory committee and Enrollment Services to ensure that all degree requirements are met.

GENERAL EDUCATION REQUIREMENTS (GER) FOR BACCALAUREATE DEGREES

All students who earn a baccalaureate degree from UAA must have completed the General Education Requirements (34 credits required).

Courses may fulfill more than one requirement in a degree program. No course may be counted in more than one General Education category. Courses ending with numbers _93 or _94 will not satisfy a GER. UAA courses not on the approved GER list can not be petitioned to meet a GER.

The General Education Requirement provides students with a common educational experience that will foster the development of habits and capabilities fundamental to personal growth and productive life.

To this end, UAA students take courses in six basic areas:
1. Courses in Written and Oral Communication develop the critical reading, thinking, and communication faculties (writing, speaking, and listening) necessary for personal and professional success.

2. Courses in Quantitative Skills foster the analytical and mathematical abilities necessary for success in undergraduate study and professional life.

3. Courses in the Humanities consider the cultural, historical, literary, aesthetic, ethical, and spiritual traditions shaping the contemporary world.

4. Courses in the Fine Arts examine the historical, aesthetic, critical, and creative aspects of art.

5. Courses in the Social Sciences explore insights about individuals, groups and cultures derived from empirical methodologies.

6. Courses in the Natural Sciences present theoretical and descriptive approaches to understanding the natural and physical worlds. Throughout these studies, where applicable, students are encouraged to master information technologies, appreciate the multicultural reality of contemporary life, practice critical thinking, and consider the ethical commitments informing responsible citizenship.

After completing the General Education Requirements, UAA students shall be able to:
1. Communicate effectively in a variety of contexts and formats.

2. Reason mathematically, and analyze quantitative and qualitative data competently to reach sound conclusions.

3. Relate knowledge to the historical context in which it developed and the human problems it addresses.

4. Interpret different systems of aesthetic representation and understand their historical and cultural contexts.

5. Investigate the complexity of human institutions and behavior to better understand interpersonal, group, and cultural dynamics.

6. Identify ways in which science has advanced the understanding of important natural processes.

7. Locate and use relevant information to make appropriate personal and professional decisions.

8. Comprehend the concepts and perspectives needed to function in a multicultural society.

9. Integrate creative and critical thinking and personal experience in a meaningful and coherent manner.
Courses listed here as satisfying a General Education Requirement are also identified in the course description area of the catalog.

### Classification Credits

1. Oral Communication Skills .......................................................... 3
   Courses that fulfill this requirement are those which emphasize the acquisition of English language skills in orally communicating ideas in an organized fashion through instruction accompanied by practice. Courses completed at UAAn must be selected from the following:
   - COMM A111 Fundamentals of Oral Communication
   - COMM A235 Small Group Communication
   - COMM A237 Interpersonal Communication
   - COMM A241 Public Speaking

2. Written Communication Skills ....................................................... 6
   Courses that fulfill this requirement are those which emphasize the acquisition of English language skills in organizing and communicating ideas and information through expository writing. Courses completed at UAA must be selected from the following:
   - ENGL A111 Methods of Written Communication
   - ENGL A211 Academic Writing About Literature
   - ENGL A212 Technical Writing
   - ENGL A213 Writing in the Social and Natural Sciences
   - ENGL A311 Advanced Composition
   - ENGL A312 Advanced Technical Writing
   - ENGL A441 Research Writing

3. Quantitative Skills ........................................................................ 3
   Courses that fulfill this requirement are those which emphasize the development and application of quantitative problem-solving skills as well as skills in the manipulation and/or evaluation of quantitative data. Courses completed at UAA must be selected from the following:
   - AS A252 Elementary Statistics
   - AS A207 Probability and Statistics
   - MATH A107 College Algebra
   - MATH A108 Trigonometry
   - MATH A109 Precalculus
   - MATH A200 Calculus I
   - MATH A201 Calculus II
   - MATH A270 Applied Finite Mathematics for the Managerial Sciences
   - MATH A272 Calculus for Managerial Sciences

4. Humanities (outside the major) ....................................................... 6
   Courses that fulfill this requirement are those which introduce the student to the humanistic fields of language, arts, literature, history and philosophy within the context of their traditions. (Note: History and Women’s Studies may be applied to either the Humanities or the Social Sciences requirements but not to both. The student may not count one or more history course toward one requirement and an additional history course or courses toward the other). Courses completed at UAAn must be selected from the following:
   - AKNS A101 Alaska Native Languages I
   - AKNS A102 Alaska Native Languages II
   - ART A261 History of World Art I
   - ART A262 History of World Art II
   - ART A367 History of Photography
   - ASLA A101 Elementary American Sign Language I
   - ASLA A102 Elementary American Sign Language II
   - ASLA A201 Intermediate American Sign Language I
   - ASLA A202 Intermediate American Sign Language II
   - CHIN A101 Elementary Chinese I
   - CHIN A102 Elementary Chinese II
   - ENGL A121 Introduction to Literature
   - ENGL A201 Masterpieces of World Literature I
   - ENGL A202 Masterpieces of World Literature II
   - ENGL A301 Literature of Britain I
   - ENGL A302 Literature of Britain II
   - ENGL A303 Topics in National Literatures
   - ENGL A306 Literature of the United States I
   - ENGL A307 Literature of the United States II
   - ENGL A310 Ancient Literature
   - ENGL A383 Film Interpretation
   - FREN A101 Elementary French I
   - FREN A102 Elementary French II
   - FREN A201 Intermediate French I
   - FREN A202 Intermediate French II
   - GER A101 Elementary German I
   - GER A102 Elementary German II
   - GER A201 Intermediate German I
   - GER A202 Intermediate German II
   - HIST A101 Western Civilization I
   - HIST A102 Western Civilization II
   - HIST A121 East Asian Civilization I
   - HIST A122 East Asian Civilization II
   - HIST A131 History of United States I
   - HIST A132 History of United States II
   - HUM A341 History of Alaska
   - HUM A211 Introduction to Humanities I
   - HUM A212 Introduction to Humanities II
   - HUM A250 Myths and Contemporary Culture
   - JPC A215 History of Mass Communication
   - JPC A367 History of Photography
   - JP A101 Elementary Japanese I
   - JP A102 Elementary Japanese II
   - JP A201 Intermediate Japanese I
   - JP A202 Intermediate Japanese II
   - KOR A101 Elementary Korean I
   - LAT A101 Elementary Latin I
   - LAT A102 Elementary Latin II
   - LING A101 The Nature of Language
   - MUS A221 History of Music I
   - MUS A222 History of Music II
   - PHILA A101 Introduction to Logic
   - PHILA A201 Introduction to Philosophy
   - PHILA A211 History of Philosophy I
   - PHILA A212 History of Philosophy II
   - PHILA A301 Ethics
   - PHILA A313B Eastern Philosophy and Religion
   - PHILA A314 Western Religion
   - PS A331 Political Philosophy
   - PS A332 History of Political Philosophy I: Classical
   - PS A333 History of Political Philosophy II: Modern
   - RUSS A101 Elementary Russian I
   - RUSS A102 Elementary Russian II
   - RUSS A201 Intermediate Russian I
   - RUSS A202 Intermediate Russian II
   - SPAN A101 Elementary Spanish I
   - SPAN A102 Elementary Spanish II
   - SPAN A201 Intermediate Spanish I
   - SPAN A202 Intermediate Spanish II
   - THR A311 Representative Plays I
   - THR A312 Representative Plays II
   - THR A411 History of the Theatre I
   - THR A412 History of the Theatre II
   - WS A200 Introduction to Women’s Studies

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5. Fine Arts* ............................................................................................

Courses that fulfill this requirement are those that provide the student with an introduction to the fine arts (visual arts and performing arts) as academic disciplines as opposed to those that emphasize acquisition of skills.

*Music Majors must select courses outside the major. Courses completed at UAA must be selected from the following:

- ART A160 Art Appreciation
- ART A261 History of World Art I
- ART A262 History of World Art II
- ART A367 History of Photography
- DNCE A170 Dance Appreciation
- JPC A367 History of Photography
- MUS A121 Music Appreciation*
- MUS A221 History of Music I*
- MUS A222 History of Music II*
- THR A111 Introduction to the Theatre
- THR A311 Representative Plays I
- THR A312 Representative Plays II
- THR A411 History of the Theatre I
- THR A412 History of the Theatre II

6. Social Sciences (outside the major; from 2 different disciplines).6

Courses that fulfill this requirement are broad survey courses which provide the student with exposure to the theory, methods, and data of the social sciences. (Note: History and Women's Studies may be applied to either the Humanities or the Social Sciences requirement but not to both. The student may not count one or more history courses toward one requirement and an additional history course or courses toward the other).

Courses completed at UAA must be selected from the following:

- ANTH A101 Introduction to Anthropology
- ANTH A200 Natives of Alaska
- ANTH A202 Cultural Anthropology
- ANTH A250 The Rise of Civilization
- BAA151 Introduction to Business
- ECON A201 Principles of Macroeconomics
- ECON A202 Principles of Microeconomics
- ENV A201 History of the Theatre I
- ENV A202 History of United States I
- ENV A341 History of Alaska
- HUMS A106 Introduction to Social Welfare
- INTL A201 Canada: Introductory Survey
- JPC A101 Introduction to Mass Communication
- JUST A110 Introduction to Justice
- JUST A330 Justice and Society
- PARL A101 Introduction to Law
- PS A101 Introduction to American Government
- PS A102 Introduction to Political Science
- PS A311 Comparative Politics
- PS A351 Political Sociology
- PSYA A111 General Psychology
- PSYA A150 Human Development
- SOC A101 Introduction to Sociology
- SOC A201 Social Problems and Solutions
- SOC A202 The Social Organization of Society
- SOC A222 Small and Rural Communities
- SOC A342 Sexual, Marital and Family Lifestyles
- SOC A351 Political Sociology
- SWK A106 Introduction to Social Welfare
- WS A200 Introduction to Women’s Studies

7. Natural Sciences (must include a laboratory course)..............

Courses that fulfill this requirement are those that provide the student with broad exposure and include general introduction to the theory, methods, and disciplines of the natural sciences.

Courses completed at UAA must be selected from the following:

- ASTR A103 Introductory Astronomy I
- ASTR A104 Introductory Astronomy II
- BIOLA A102 Introductory Biology
- BIOLA A103 Introductory Biology Laboratory
- BIOLA A105 Fundamentals of Biology I
- BIOLA A106 Fundamentals of Biology II
- BIOLA A111 Human Anatomy and Physiology I
- BIOLA A112 Human Anatomy and Physiology II
- CHEM A103/L Survey of Chemistry
- CHEM A104/L Introduction to Organic Chemistry and Biochemistry
- CHEM A105/L General Chemistry I
- CHEM A106/L General Chemistry II
- ENV A202 Earth as an Ecosystem: Introduction to Environmental Science
- GEOG A205/LElements of Physical Geography
- GEOL A111 Physical Geology
- GEOL A112 Historical Geology
- GEOL A115/LEnvironmental Geology
- PHYS A101 Concepts of Physics
- PHYS A123/L Basic Physics I
- PHYS A124/L Basic Physics II
- PHYS A211/L General Physics I
- PHYS A212/L General Physics II
The University Honors Program is designed to provide enhanced educational opportunities for outstanding UA students leading to a designation of “University Honors Scholar” upon graduation. Honors courses will approach the course subject matter with more intensity and rigor than is demanded of typical courses at that level. Honors students will also participate in ancillary honors activities designed to enhance intellectual and personal opportunities.

In addition to the University Honors Program, several departments at UAA offer departmental honors programs. Students may complete both University and departmental honors requirements with dual designations upon graduation, and in some cases departmental honors courses may be substituted for one or more University Honors Program requirements. In addition, students pursuing only departmental honors may enroll in some University Honors Program courses with permission of the University Honors Program Director, and on a space available basis.

Admission to the University Honors Program

1. Admission to the University Honors Program is limited to baccalaureate degree seeking students. Admission is separate from and in addition to general UA admission requirements.

2. Students must submit a completed University Honors Program application, including supporting documents, to the Program Office (ADM 236). Supporting documents include: (1) high school transcripts and SAT or ACT scores for incoming freshmen, (2) university transcripts and GPA for transfer students, (3) an essay on personal goals, and (4) a completed reference form from two previous teachers. Application packets may be obtained from Enrollment Services or from the University Honors Program office.

3. In general, students applying to the University Honors Program from high school or transferring into the program with previous college-level work must have at least a 3.0 GPA, and show strong evidence of ability to reach and maintain a 3.5 GPA level at UAA within a reasonable time. However, the initial GPA entrance requirement should be interpreted as a general guideline, and not as an absolute criterion; all students who believe that they can succeed and benefit in an honors program are encouraged to apply.

4. Admission to the University Honors Program will be determined by the Honors Program Admission Committee. Admission is based on an overall evaluation of the student’s probability of success in the Program, and not on any single criterion or formula. The Committee may ask the applicant for additional information and/or suggest an interview. Applicants will be ranked, and admitted on a space-available basis. In some cases, the Committee may initially grant conditional admission, which will be changed to formal admission if the student demonstrates ability to do honors work.

Requirements to Graduate with “University Honors”

1. Students must meet all General University Requirements, General Education Requirements, School/Collage requirements, and major requirements as printed in the UAA catalog. Students enrolled in the University Honors Program who successfully complete the University Honors core lower-division honors requirements listed in section 2 may apply three credits toward satisfying the General Education requirement in the humanities and three credits toward satisfying the General Education requirement in the social sciences.

2. Students must complete the following University Honors Program curriculum requirements, and are encouraged also to take the recommended courses if at all possible:

Lower-Division Honors Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HNRS 110</td>
<td>Community and Cultural Awareness</td>
<td>1*</td>
</tr>
<tr>
<td>HNRS 112</td>
<td>Honors Seminar: Enduring Books</td>
<td>3</td>
</tr>
<tr>
<td>HNRS 210</td>
<td>Community Service</td>
<td>1*</td>
</tr>
<tr>
<td>HNRS 292</td>
<td>Honors Seminar: Modern American Culture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total lower-division honors credits required:</td>
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</tr>
<tr>
<td></td>
<td>Recommended:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Honors section of English</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Honors section of Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lower-division Statistics or Calculus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total required + recommended lower-division honors credits:</td>
<td>17</td>
</tr>
</tbody>
</table>

Upper-Division Honors Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HNRS 392</td>
<td>Honors Thesis Seminar</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>and one of the following options:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A. HNRS 490 Senior Honors Seminar</td>
<td>6*</td>
</tr>
<tr>
<td></td>
<td>B. A course proposed by the student, and approved by the Honors Program Director (3 credits minimum; may be an existing course or independent study) and Senior thesis or project (3 credits minimum; either departmental thesis/project, or HNRS A499 Honors Thesis).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C. An upper-division course listed in the catalog as a specific departmental honors requirement (3 credits minimum) and Senior thesis or project (3 credits minimum; either departmental thesis/project, or HNRS A499 Honors Thesis).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D. Six-credit thesis/project (either departmental thesis/project, or HNRS A499 Honors Thesis).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total upper-division honors credits required:</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Total University Honors Program credits required:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(6 lower-division + 7 upper-division):</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Total University Honors Program credits required + recommended:</td>
<td>24</td>
</tr>
</tbody>
</table>

*Credit over two semesters

3. Students must have earned a cumulative grade point average of 3.5 or higher.

4. As part of the advising/mentoring process, Honors students’ progress will be evaluated every semester. Students whose performance indicates potential difficulties in meeting the Honors graduation requirements will be counseled on how to correct these difficulties, but if performance improvements do not result, the student may be removed from the Program.

Faculty

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Margaret Simonian, Instructor
COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is dedicated to the principle that an enlightened understanding of the world is fostered by study of an individual’s physical environment, one’s cultural values and processes, one’s creative expressions, and one’s systems of thought and discovery. In fulfillment of this educational commitment, the fields of study offered by the College serve two ends: they are intellectually valuable in themselves and they are an essential complement to other fields of knowledge. The faculty are highly trained and energetic professionals who are here to impart the knowledge and skills of their academic disciplines both to majors within the College and to students in the various professional schools and the community. The formal means of communicating this knowledge and these skills are the courses and degree programs of the College.

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 an associate or a baccalaureate degree or to undertake graduate studies. Students who wish to begin work on their degrees at another university or at a University of Alaska Anchorage should plan their course work in accordance with the General University Requirements and the requirements of the particular program in which they are interested in earning a degree.

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 degrees.

HIGH SCHOOL PREPARATION

The following high school courses are recommended but not necessarily required in preparation for admission to the various programs within the College of Arts and Sciences:

**English**

Four years with emphasis on spelling, writing, grammar, and research skills such as preparation of bibliographies.

**Mathematics**

**BA candidates:** Three years with emphasis on Algebra I and II, Trigonometry, Geometry, Analysis.

**BS candidates:** Four years with emphasis on Algebra I and II, Trigonometry, Geometry, Analysis.

**Science**

**BA candidates:** Two to three years with emphasis in Biology, Chemistry, Physics, Geology, and/or Earth Science.

**BS candidates:** Three to four years with emphasis in Biology, Chemistry, Physics, Geology, and/or Earth Science.

**Language**

One to two years. Suggested languages: German, Russian, Latin, Japanese, French, Spanish, Chinese, or Native Languages.

**Electives**

No more than 6 credits in lower-division physical education courses (EDPE) and/or Alaska Outdoor and Experiential Education courses (AOEE) may be applied toward a BA or BS degree program offered by the College of Arts and Sciences.

**Bachelor of Arts**

The Bachelor of Arts degree is a liberal arts degree. The basic assumption of a liberal arts degree is that a broad knowledge base will serve the student over a lifetime.

**A. Cultural Heritages**

1. Comparative Cultures
   (ANTH A201, A202, A203, A204, A205, A206, A207)
   3 credits

2. Western Culture
   (HIST A101 and HIST A102)
   6 credits

3. American Culture
   (HIST A131, HIST A132, PS A101)
   3 credits

**B. Arts and Letters**

1. Introduction to Literature
   (ENGL A121, A301, A302, A305, A306, A307)
   3 credits

2. Language/Humanities
   6-8 credits

**C. Ways of Knowing**

1. Comparative Cultures
   (ANTH A201-A202, ART A261-A262, ENGL A201-A202, MUS A221-A222*, PHILA A211-A212, PHILA A310, PS A201, THR A311-A312, THR A411-A412)

*BA music majors must select courses outside their major.

2. Language/Humanities
   6-8 credits

3. Comparative Cultures
   (ANTH A201-A202, ART A261-A262, ENGL A201-A202, MUS A221-A222*, PHILA A211-A212, PHILA A310, PS A201, THR A311-A312, THR A411-A412)

*BA music majors must select courses outside their major.

3. Comparative Cultures
   (ANTH A201-A202, ART A261-A262, ENGL A201-A202, MUS A221-A222*, PHILA A211-A212, PHILA A310, PS A201, THR A311-A312, THR A411-A412)

*BA music majors must select courses outside their major.

**D. Social Behavior**

1. Comparative Cultures
   (ANTH A201, COMM A101, A202, A203, A204, A205, A206, A207)
   3 credits

2. Language/Humanities
   6-8 credits

3. Comparative Cultures
   (ANTH A201, COMM A101, A202, A203, A204, A205, A206, A207)
   3 credits

4. Comparative Cultures
   (ANTH A201, COMM A101, A202, A203, A204, A205, A206, A207)
   3 credits

**College of Arts and Sciences Requirements**

To earn a Bachelor of Arts; Bachelor of Science; or Bachelor of Music, Performance, students must complete the CAS requirements shown below, in addition to the General Education Requirements, the General University Requirements, and major program requirements. Students completing an interdisciplinary studies degree in which all academic disciplines represented in their major concentration are within the College of Arts and Sciences must also meet the CAS BAor BS requirements. Students should examine the program descriptions for the major program and consult with an advisor before making final course selections. Some courses may be used to satisfy more than one requirement in a degree program.

**Social Sciences**

Two years with emphasis in World History, U.S. History, Comparative Political Theory, Current Events, Geography, Cultural Anthropology, and/or Prehistoric Archaeology.

**Arts**

One to two years with emphasis in basic and fundamental courses in the Arts with more advanced courses dependent upon students’ particular interest.

**Computer Science**

One to two years. Basic knowledge of computer science recommended for all college-bound students.
BACHELOR OF SCIENCE

The requirements of the Bachelor of Science degree are designed to equip students with the technical competencies needed in scientific disciplines.

A. Mathematics and Statistics
   (MATH A200 or MATH A272) 3-4
   (AS A253 or AS A307) 3-4

B. Computer Programming
   (CS A105, CS A107, CS A109, CS A201, CS A202, ES A201) 3

C. Language/Humanities 6-8
   Any 2 semester sequence in French, German, Japanese, Russian, or Spanish or one of the following humanities sequences:
   (ART A261-A262, ENGLA201-A202, MUS A221-A222
   PHIL A211-A212, PHIL A313B-A314, PS A332-A333
   THR A311-A312, THR A411-A412)

D. Natural Sciences 9*
   To be selected from the following list:
   (ASTR A103, A104
   BIOLA102, A103, A105, A106, A111, A112, A113, A114
   CHEM A103/L, A104/L, A105/L, A106/L
   GEOL A111, A112
   PHYS A123/L, A124/L, A211/L, A212/L)
   *Must be in addition to the 7 credit Natural Sciences General Education Requirement. The total Natural Sciences Requirement (16 credits) must include at least 6 credits in each of 2 disciplines and 2 lab credits.

BACHELOR OF MUSIC, PERFORMANCE

A. Language Proficiency 8
   Any 2 semester language sequence.

BACHELOR OF FINE ARTS

The Bachelor of Fine Arts is a professionally oriented program designed to prepare students for careers in art. No additional college requirements.

CAS MINOR

A minor from the College of Arts and Sciences will consist of a minimum of 18 credits, at least 6 of which will be upper-division. Refer to each discipline for specific courses required. Also see Minors policy in this chapter.

ASSOCIATE OF ARTS

ADMISSION REQUIREMENTS

Complete the Certificate and Associate Degree Programs Admission Requirements located at the beginning of this chapter.

GENERAL UNIVERSITY REQUIREMENTS

Complete the Associate Degrees General University Requirements located at the beginning of this chapter.

DEGREE REQUIREMENTS

All Courses must be at the 100-level or above. At least 20 credits of the required 60 credits must be at the 200-level. If you intend to complete the Associate of Arts degree and then continue on to a baccalaureate degree, consult the Associate of Arts with Baccalaureate Degree General Education Requirements LINK listed below.

1. Oral Communication Skills 3
   COMM A111 or A235 or A237 or A241

2. Written Communication Skills 6
   ENGLA111 Methods of Written Communication
   and one of the following:
   ENGLA211 Academic Writing About Literature
   ENGLA212 Technical Writing
   ENGLA213 Writing in the Social and Natural Sciences
   CIOS A262 Written Business Communications

3. Applied Studies* 9
4. Humanities* 9
5. Math and Natural Sciences* 9
6. Social Sciences* 9
7. Electives* 15

Total Minimum Credits 60

ASSOCIATE OF ARTS WITH BACCALAUREATE DEGREE

GENERAL EDUCATION REQUIREMENTS LINK

Associate degree students who plan to enroll in a baccalaureate degree program can maximize transferability/applicability of their credits by taking the following courses to meet Associate of Arts degree requirements:

All Courses must be at the 100-level or above. At least 20 credits of the required 60 credits must be at the 200-level.

1. Oral Communication Skills 3
   COMM A111 or A235 or A237 or A241

2. Written Communication Skills 6
   ENGLA111 Methods of Written Communication
   and one of the following:
   ENGLA211 Academic Writing About Literature
   ENGLA212 Technical Writing
   ENGLA213 Writing in the Social and Natural Sciences

3. Applied Studies* 9
4. Humanities* 9
5. Math and Natural Sciences* 9
6. Social Sciences* 9
7. Electives* 15

Total Minimum Credits 60

*Consult the Associate Degree Course Classifications list.
ALASKA NATIVE STUDIES

The Alaska Native Studies program seeks to provide the student with: an introduction to Alaskan Native ways of knowing and seeing the world, an experiential and theoretical exploration of Alaskan Native cultures, a series of critical perspectives on traditional and contemporary Native experience and politics in a pluralistic society. The Alaska Native Studies minor is highly recommended for Native and non-Native students and professionals who work with the rural and urban Alaska Native community.

MINOR, ALASKA NATIVE STUDIES

1. Complete the following core courses:
   - AKNS A201 Native Perspectives 3
   - AKNS A492 Seminar: Cultural Knowledge of Native Elders 3

2. Complete one of the following Focus Areas: 8-12
   A. Policy Focus (12 credits)
      - AKNS A290 Selected Topics in Alaska Native Studies (1-3)
      - AKNS/PS A346 Alaska Native Politics (3)
      - AKNS/PS A411 Tribes, Nations and Peoples (3)
      - AKNS A490 Selected Topics in Alaska Native Studies (1-3)
   B. Language Focus (8 credits)
      - AKNS A101 Alaska Native Languages I (4)
      - AKNS A102 Alaska Native Languages II (4)

3. Complete no fewer than 6 credits of the following in addition to focus requirements: 6
   - AKNS A101 Alaska Native Languages I (4)
   - AKNS A102 Alaska Native Languages II (4)
   - AKNS A109 Alaska Native Language Orthography (4)
   - AKNS/PS A110 Parliamentary Procedures (1)
   - AKNS A290 Selected Topics in Alaska Native Studies (1-3)
   - AKNS/PS A346 Alaska Native Politics (3)
   - AKNS/PS A411 Tribes, Nations and Peoples (3)
   - AKNS A420 Alaska Native Education (3)
   - ANTH A200 Natives of Alaska (3)
   - ANTH A435 Northwest Coast Cultures (3)
   - ANTH A436 Aleut Adaptations (3)
   - ART A365 Native Art of Alaska (3)
   - EDPE A145 Alaska Native Survival Techniques (3)
   - HIST A235 History of American Indians (3)
   - JUST A455 Rural Justice (3)
   - JUST A462 Indian Law and the Settlement Act (3)

4. Complete 3 additional credits from the following: 3
   - ANTH A435 Northwest Coast Cultures (3)
   - ENGL A344 Topics in Native Literatures (3)
   - ENGL A445 Alaska Native Literatures (3)
   - HIST A235 History of American Indians (3)
   - HIST A341 History of Alaska (3)

5. A total of 23-27 credits is required for the minor, of which 6 credits must be upper-division.

ANTHROPOLOGY

Anthropology is the study of human diversity on a cross-cultural basis, aimed at achieving both scientific and humanistic education goals. Anthropology is comprised of four sub-fields: sociocultural anthropology, biological anthropology, archaeology, and anthropological linguistics. The BA/BS degrees are designed to provide the student with a solid general foundation in the discipline by emphasizing understanding of different cultures and peoples as well as different theories and methodologies. Although there is some opportunity for limited specialization in either archaeology or sociocultural anthropology and in Alaska studies, the department believes that such specialization should be deferred until graduate work.

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
   Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
   Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
   Complete the College of Arts and Sciences requirements for either a BAor BS degree listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

BACHELOR OF ARTS, ANTHROPOLOGY

1. Complete 36 credits from items 2 through 6, 18 of which must be upper-division credits.
2. Complete four of the following core courses (12 credits): 12
   - ANTH A202 Cultural Anthropology (3)
   - ANTH A205 Biological Anthropology (3)
   - ANTH A210 Introduction to Anthropological Linguistics (3)
   - ANTH A211 Fundamentals of Archaeology (3)
   - ANTH A260 Old World Archaeology (3)
3. Complete the following course (3 credits):
   - ANTH A410 History of Anthropology 3

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4. Complete three ethnographic area courses from the following (9 credits):
   - ANTH A200 Natives of Alaska (3)
   - ANTH A235 Cook Inlet Anthropology (3)
   - ANTH A333 Peoples and Cultures of Southeast Asia (3)
   - ANTH A335 Native North Americans (3)
   - ANTH A336 Peoples and Cultures of South America (3)
   - ANTH A338 Peoples and Cultures of Scandinavia (3)
   - ANTH A426 Arctic Ethnology (3)
   - ANTH A427 Ethnohistory of Alaska Natives (3)
   - ANTH A435 Northwest Coast Cultures (3)
   - ANTH A436 Aleut Adaptations (3)
   - ANTH A437 Eskimo Adaptations (3)
   - ANTH A438 Tlingit and Haida Adaptations (3)
   - ANTH A439 Athapaskan Adaptations (3)

5. Complete two courses from the following topical/theoretical courses (6 credits):
   - ANTH A270 Cross-Cultural Perspectives on Women (3)
   - ANTH A324 Culture and Personality (3)
   - ANTH A350 Survey of the Primates (3)
   - ANTH A354 Culture and Ecology (3)
   - ANTH A365 Races: Modern Human Diversity (3)
   - ANTH A400 Anthropology of Religion (3)
   - ANTH A415 Applied Anthropology (3)
   - ANTH A432 Hunting and Gathering Societies (3)
   - ANTH A445 Evolution of Humans and Disease (3)
   - ANTH A450 Human Evolution (3)
   - ANTH A455 Medical Anthropology (3)
   - ANTH JUST A456 Anthropology and the Law (3)
   - ANTH A457 Food and Nutrition: An Anthropological Perspective (3)
   - ANTH A480 Analytical Techniques in Archaeology (3)
   - ANTH A482 Historical Archaeology (3)
   - ANTH A485 Human Osteology (3)

6. Anthropology Electives (6 credits):
   Any course in Anthropology, except for ANTH A250, may be applied toward the elective requirement.

7. Complete one statistics course from the following: 3
   - AS A252 Elementary Statistics (3)
   - AS A307 Probability and Statistics (3)

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

9. Selected and Special Topics courses and Independent Study courses in Anthropology may be petitioned to satisfy ethnographic area or topical/theoretical courses requirements, depending on the course content.

10. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.
9. Special and Selected Topics courses and Independent Study courses in Anthropology may be petitioned to satisfy ethnographic area or topical/theoretical courses requirements, depending on the course content.

10. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

RECOMMENDED COURSE SEQUENCE

**First Year**
- **Fall**
  - ANTH A101 Introduction to Anthropology
  - GER
- **Spring**
  - ANTH A202 Cultural Anthropology

**Second Year**
- **Fall**
  - ANTH A205 Biological Anthropology
  - ANTH A211 Fundamentals of Archaeology
- **Spring**
  - ANTH A250 Rise of Civilizations
  - ANTH A260 Old World Archaeology

**Third Year**
- **Fall**
  - AS A252 Elementary Statistics
  - or AS A307 Probability and Statistics
  - 1 or 2 upper-division Anthropology courses
- **Spring**
  - 2 or 3 upper-division Anthropology courses

**Fourth Year**
- **Fall**
  - 2 or 3 upper-division Anthropology courses
- **Spring**
  - ANTH A410 History of Anthropology
  - 1 or 2 upper-division Anthropology courses

**MINOR, ANTHROPOLOGY**

Students majoring in another subject who wish to minor in Anthropology must complete the following requirements. A total of 18 credits is required for the minor, 6 of which must be upper-division.

1. Select two courses (6 credits) from the following:
   - ANTH A101 Introduction to Anthropology (3)
   - ANTH A202 Cultural Anthropology (3)
   - ANTH A210 Introduction to Anthropological Linguistics (3)
   - ANTH A211 Fundamentals of Archaeology (3)
   - ANTH A260 Old World Archaeology (3)

2. Complete at least one course (3 credits) from either the ethnographic area or the topical/theoretical area, as specified above for majors in Anthropology.

3. Complete three courses (9 credits) of anthropology electives.

**FACULTY**

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**APPLIED STATISTICS**

saturn.math.uaa.alaska.edu
College of Arts & Sciences Building (CAS), Room 154, (907) 786-1742/4924

Applied Statistics courses are offered in the Department of Mathematical Sciences. During the past several decades, the social and economic structure of the United States has shifted from an industrialized base to an information and services base. Rapid development of computer technology has led to an increase in the use of statistics as a tool for analyzing data across all disciplines. Increasing demand exists for individuals with training in statistical analysis. The unprecedented growth of research institutes nationwide confirms the importance of sampling and statistical analysis. Statistics is now widely used in a broad spectrum of disciplines. There is substantial demand among students and various entities within the community for this program.

**MINOR, APPLIED STATISTICS**

Students majoring in another subject who wish to minor in Applied Statistics must complete the following requirements. A total of 26 credits is required for the minor.

1. Complete these required courses (20 credits):
   - AS A307 Probability and Statistics (3)
   - AS A308 Intermediate Statistics (3)
   - AS A315 Nonparametric Statistics (3)
   - AS A402 Scientific Sampling (3)
   - MATH A200 Calculus I (4)
   - MATH A201 Calculus II (4)

2. Complete a minimum of 6 credits from the following:
   - AS A310 Regression Analysis (3)
   - AS A312 Analysis of Variance (3)
   - AS A400 Selected Topics in Statistics (3) (maximum 3 credits)
   - AS A407 Time Series Analysis (3)
   - AS A408 Multivariate Analysis (3)
   - MATH A371 Probability Models (3)
   - MATH A407 Mathematical Statistics I (3)
   - MATH A408 Mathematical Statistics II (3)

Note: Applied Statistics courses may be taken to satisfy the elective portion of the minor or the elective portion of the Mathematics major but not both.

**FACULTY**

Kanapathi Thiru, Associate Professor, AFKT@uaa.alaska.edu
Art gives form to human experience; it expresses the entire range of thought and feeling. Affirming the belief that knowledge of the visual arts is an indispensable part of any broad education, the Department of Art offers a wide range of learning experiences designed to encourage independent thinking and creativity, and to develop an appreciation of humankind’s artistic achievements from pre-history to the present. The Bachelor of Arts and the Bachelor of Fine Arts are accredited by the National Association of Schools of Art and Design.

The Department of Art discerns three distinct functions for visual arts education at UAA: training future professional artists—painters, sculptors, printmakers, craftspersons and designers; training future art teachers for public and private elementary and secondary schools; and supplying supplementary training in the visual arts for students who wish to enrich their lives through the study of visual art, but who do not wish to obtain a degree.

Students must note the following:
1. Some courses do not apply to degree programs.
2. Some courses may be taken for repeat credit.
3. Many art courses require or strongly suggest completion of certain prerequisite art courses. Non-art majors who wish to enroll in an art class without first having completed the recommended prerequisites are free to do so but may find the classroom experience difficult or unrewarding.
4. Art majors must obtain pre-registration advising and approval from art faculty for art course work undertaken each semester.

ART EDUCATION - TEACHER PREPARATION
Students preparing to teach art should consult the School of Education concerning university programs leading to art teacher certification.

GRAPHIC DESIGN - BACHELOR OF ARTS IN JPC
The Department of Journalism and Public Communications, in cooperation with the Department of Art, offers the Bachelor of Arts Degree in Journalism and Communications with the Graphic Design Option. Refer to the Journalism and Public Communications section of this University Catalog for degree requirements, or contact either department for more information.

GRAPHIC DESIGN - BACHELOR OF FINE ARTS IN ART
The Department of Art offers the Bachelor of Fine Arts Degree in Art with a Studio Emphasis in Graphic Design. Refer to the Bachelor of Fine Arts section following for degree requirements.
UPPER-DIVISION ART (21 CREDITS):
3. Complete a total of 15 credits in the areas of studio emphasis listed below, a minimum of 9 credits must be in a single area of studio emphasis:

- Painting
- Photography
- Illustration
- Drawing
- Printmaking
- Jewelry/Metalsmithing
- Sculpture
- Ceramics
- Fibers*

*Note: All courses in Fibers are currently taught at the Matanuska-Susitna College and Kenai Peninsula College campuses.

4. Complete 6 credits in upper division Art History courses.

MISCELLANEOUS REQUIREMENTS (21 CREDITS):
5. Complete the following:
   - PHIL A401 Aesthetics
   - Upper-division General Electives
6. A total of 120 credits are required for the degree, of which 42 credits must be upper-division.

BACHELOR OF FINE ARTS, ART

The Bachelor of Fine Arts degree is a professionally oriented program 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 achieve professional competence in their primary area of studio emphasis.

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter. Admission into the BFA program, termination from it, and granting of the degree are done at the discretion of the BFA Committee.

Students admitted into the BFA program must complete a minimum of 24 art credits in residence at UAA after acceptance into the BFA program. For the transfer student, a minimum of 12 resident art credits must be completed in the primary area of studio emphasis, and a minimum of 3 resident art credits completed in the secondary area of studio emphasis.

Applicants for admission into the BFA program must meet the following requirements:
1. Applicants must have been officially admitted into the College of Arts and Sciences.
2. Applicants must have completed all lower-division art requirements for the BFA degree.
3. Applicants must have been enrolled at the University of Alaska Anchorage for at least one semester.
4. Applicants must meet minimum academic GPA requirements of:
   - 2.50 overall course work
   - 3.00 overall art course work

The following materials must be submitted to the Department of Art at least two weeks prior to the application interview with the BFA Committee:
1. Application for admission into the BFA Program.
2. Letter of intent stating objectives and qualifications.
   - Student should indicate an awareness of the differences between the BA in Art and the BFA degree programs.
3. Copies of all college transcripts.
4. A list of all college art courses taken with grade received.

Applicants seeking admission into the BFA program will present their portfolio at a regularly scheduled BFA Committee meeting. Acceptance into the BFA program will be determined by the BFA Committee members present at the meeting. Applicants should check with the Department of Art main office for meeting times and places. Meetings are generally held once a semester.

Academic Progress

To graduate with a BFA in Art students must have met the following GPA requirements:
1. A minimum overall major GPA of 3.00.
2. A minimum GPA of 3.50 in the primary area of studio emphasis.
3. A minimum cumulative GPA of 2.50 in all university course work.

SEMESTER REVIEWS

The progress of all BFA candidates will be reviewed a minimum of once a semester by the BFA committee.

THESIS PROJECT

Upon completion of all studio courses in the student’s primary and secondary areas of emphasis, BFA Candidates will enroll in ART A499 Thesis and complete a body of work which will culminate in a formal exhibition or presentation. BFA students enrolled in ART A499 Thesis will meet with the BFA Committee a minimum of twice a semester in addition to the final thesis evaluation.

Note: Students must have a thesis proposal accepted by the BFA Committee during the semester prior to enrollment in Art A499 Thesis. Thesis Proposal Reviews are generally scheduled once a semester. Check with Department of Art main office for meeting time and place.

Evaluation of the student’s thesis project will be based on content, presentation, and the degree of success in visual realization of the written proposal. At least 10 slides of the student’s thesis will be furnished to the Department of Art. These slides must be acceptable to the BFA Committee, and will become the property of the Department of Art. Slides must be received by the department before a grade for Art A499 Thesis is awarded.
EXHIBITIONS AND PRESENTATIONS

While BFA Candidates will generally participate in the BFA Show to be held in the Kimura Gallery, some students may elect to prepare a formal presentation of their thesis projects instead. Whatever the format, all aspects of the thesis exhibition or presentation must be approved by the BFA Committee. Exhibited and presented works will be selected by the BFA Committee.

The BFA Show may be held more than once a year as determined by available space and number of graduating BFA students. Graduating BFA students are invited, but not required, to donate one work of art to UAA’s permanent collection. Acceptance of donated student work is left to the discretion of the BFA Committee. After successfully completing all BFA requirements, the student is responsible for submitting an Application for Graduation to obtain the degree.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

There are no additional college requirements for the BFA degree.

D. MAJOR REQUIREMENTS

Complete the following required art courses with a minimum overall major GPA of 3.00 and a minimum GPA of 3.50 in the primary area of studio emphasis. A minimum cumulative GPA of 2.50 in all university course work is required to graduate. A maximum of 84 credits in Art may be applied toward the degree.

LOWER-DIVISION ART (27 CREDITS):

1. Complete the following core courses (18 credits):
   - ART A105 Beginning Drawing 3
   - ART A111 Two-Dimensional Design 3
   - ART A113 Three-Dimensional Design 3
   - ART A205 Intermediate Drawing 3
   - ART A261 History of World Art I 3
   - ART A262 History of World Art II 3

2. Choose one two-dimensional course, one three-dimensional course, and one course from either list to total 9 credits. 9

   Two-Dimensional Area:
   - ART A112 Color Design (3)
   - ART A213 Beginning Painting (3)
   - ART A215 Beginning Printmaking (3)
   - ART/JPC A224 Beginning Photography (3)
   - ART A252 Beginning Graphic Design and Illustration (3)
   - ART A271 Beginning Surface Design (3)
   - ART A273 Beginning Woven Forms (3)

   Three-Dimensional Area:
   - ART A201 Beginning Handbuilt Ceramics (3)
   - ART A202 Beginning Wheelthrown Ceramics (3)
   - ART A209 Beginning Metalsmithing and Jewelry (3)
   - ART A211 Beginning Sculpture (3)
   - ART A272 Beginning Fiber Structures (3)
   - ID A141 Interior Design (3)

   Upper-Division Art (42 Credits):

   3. Complete a total of 21 upper-division credits in a primary area of studio emphasis from the list below, with a minimum GPA of 3.50. 21

      Painting Ceramics
      Photography Sculpture
      Jewelry/Metalsmithing Fibers*
      Drawing Graphic Design
      Printmaking Illustration

      *Note: All courses in Fibers are currently taught at the Matanuska-Susitna College and Kenai Peninsula College campuses

   4. Complete a total of 9 upper-division credits in a secondary area of studio emphasis from the list below: 9

      Painting Ceramic
      Sculpture Jewelry/Metalsmithing Fibers*
      Photography Graphic Design
      Drawing Illustration

      *Note: All courses in Fibers are currently taught at the Matanuska-Susitna College and Kenai Peninsula College campuses

   5. Complete 9 credits in upper-division Art History 9
   6. Complete 15 credits in Studio Art courses, any level 15
   7. Prepare and present a Thesis Project (ART A499) 3
   8. Complete PHILA401 Aesthetics 3
   9. A total of 121 credits is required for the degree, of which 42 credits must be upper-division.

MINOR, ART

Students majoring in another subject who wish to minor in Art must complete the following requirements. A total of 18 credits is required for the minor, 6 of which must be upper-division. ART/ED A418 and A442 are not applicable to the Art Minor.

   Art History (ART A261 or A262) 3
   Design (ART A111 or A113) 3
   Drawing (ART A205, A305, A307, A356, A405) 3
   Studio Emphasis Courses 6
   Art History or Studio Emphasis Course 3

FACULTY

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Garry Kaulitz, Associate Professor, AFGCK@uaa.alaska.edu
Charles “Sean” Licka, Associate Professor
B. Hugh McPeck, Visiting Asst Professor
Bill Sabo, Assistant Professor
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Kat Tomka, Assistant Professor, AFKAT@uaa.alaska.edu
BIOLOGICAL SCIENCES

www.uaa.alaska.edu/biohome/biology.html
The WWAMI/Biomedical program may be found at www.uaa.alaska.edu/biomed/
Engineering Building (ENGR), Room 340, (907) 786-4770

Biology is the science which is concerned with the study of living organisms. It encompasses a vast range of biological disciplines, from the study of microbes and molecular biology to the study of plants, animals and the environment. The undergraduate program in the biological sciences includes courses which provide students with a broad understanding of both traditional and modern biological sciences. These courses are suitable as preparation for professional degrees, for teaching, or for careers in government or industry. Both the Bachelor of Arts and the Bachelor of Science degrees are available for undergraduates. A Master of Science program in the Biological Sciences is available for students already holding the baccalaureate degree.

A program of study in the biological sciences requires completion of a basic science core curriculum in the chemical, physical and mathematical sciences as well as required and elective courses in the biological sciences. Two general divisions are recognized in the biology program: the cell-molecular and the organismal-ecology-evolution areas. The cell-molecular area focuses on preprofessional sciences for students wishing to pursue careers in medicine, dentistry, and veterinary medicine, or who wish to attend graduate school. The organismal-ecology-evolution area is a more diversified curriculum emphasizing environmental, organismal, evolutionary, and general biological sciences preparatory for graduate school or for employment in the private or public sector. Students are strongly encouraged to consult with their advisors to determine which electives best suit their programmatic needs and career requirements.

The Bachelor of Arts and the Bachelor of Science degree programs require a total of 124-125 credits for graduation and can be completed in four years by students who have had adequate high school preparation in math and sciences. Refer to the beginning of this chapter for recommended high school courses.

COMMUNITY SERVICE COURSES

The department offers a wide range of community service courses as a service to the people in the Anchorage area and extended campuses who wish to become more knowledgeable about the science of biology and how it relates to them. Unless noted otherwise in the course description, community service courses do not satisfy either core requirements or elective credit towards any degree programs in the biological sciences. All are offered as demand warrants.

BIOLA074  Field Natural History
BIOLA075  Local Flora
BIOLA124  Biota of Alaska: Selected Topics
BIOLA126  Birds in Field and Laboratory
BIOLA150  Introduction to Marine Biology

UNIVERSITY SERVICE COURSES

The department offers several courses specifically designed for students majoring in Nursing, which are accepted for Biology major credit only by petition. A general biology lecture and lab course is also offered every semester for non-biology majors. Only certain 100-level courses currently satisfy General Education Requirements and Natural Sciences Area requirements for specified baccalaureate degree programs in the College of Arts and Sciences (CAS). Refer to both General Education Requirements and specific CAS program degree requirements.

BIOLA100  Human Biology
BIOLA102  Introductory Biology
BIOLA103  Introductory Biology Laboratory
BIOL/GEOLA104  Natural History of Alaska
BIOLA111  Human Anatomy and Physiology I
BIOLA112  Human Anatomy and Physiology II
BIOLA113  Lectures in Human Anatomy and Physiology I (= BIOLA111 lecture without the lab)
BIOLA114  Lectures in Human Anatomy and Physiology II (= BIOLA112 lecture without the lab)
BIOLA240  Introductory Microbiology for Health Sciences
BIOLA241  Lectures in Introductory Microbiology for Health Sciences (= BIOLA240 lecture without the lab)

BACHELOR OF ARTS, BIOLOGICAL SCIENCES

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

ACADEMIC PROGRESS

In order to graduate with a BA in Biological Sciences, all courses covered under “Major Requirements” for a BA in Biological Sciences must be completed with a grade of “C” or better. Students who audit a course in biology or who are unable to earn a grade of “C” or better in the course may repeat the course. All prerequisites for biology courses must be completed with a grade of “C” or better.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.
D. **MAJOR REQUIREMENTS**

1. Complete these required core courses (24 credits):
   - BIOLA105 Fundamentals of Biology I 4
   - BIOLA106 Fundamentals of Biology II 4
   - BIOLA252 Principles of Genetics 4
   - BIOLA310 Animal Physiology (3) 3
   - BIOLA361 Cell Biology (3)
   - BIOLA492 Undergraduate Seminar 1

2. It is recommended that students complete 8 credits from the following:
   - GEOLA111 Physical Geology (4)
   - GEOLA112 Historical Geology (4)
   - PHYS A123/L Basic Physics I (4)
   - PHYS A124/L Basic Physics II (4)

3. Complete 19-21 credits of upper-division program electives from the following areas:
   - Ecology 3-4
   - Microbiology 4-5
   - Biology electives 12

4. A total of 124 credits is required for the degree, of which 42 credits must be upper-division.

**BACHELOR OF SCIENCE, BIOLOGICAL SCIENCES**

The Bachelor of Science degree includes a single core program of course work leading to two major areas of study. The Cell-Molecular track prepares students for professional careers in areas such as medicine, dentistry and veterinary science. The Organismal-Ecology-Evolution track prepares students for careers in environmental, organismal, evolutionary biology. A wide selection of electives is available to all students. It is imperative that students consult their advisors to determine which electives are most appropriate to their career interests. Some of these elective courses are offered periodically, depending on demand. Refer to course descriptions to identify these courses.

**ADMISSION REQUIREMENTS**

Complete the Baccalaureate Degree Programs Admission Requirements located at the beginning of this chapter.

**ACADEMIC PROGRESS**

In order to graduate with a BS in Biological Sciences, all courses covered under “Major Requirements” for a BS in Biological Sciences must be completed with a grade of “C” or better. Students who audit a course in biology or who are unable to earn a grade of “C” or better in the course may repeat the course. All prerequisites for biology courses must be completed with a grade of “C” or better.

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**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

**A. GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

**B. GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

**C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS**

Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.

**D. MAJOR REQUIREMENTS**

1. Some major requirements may also be used to satisfy the College of Arts and Sciences BS requirements.

2. Complete these required support courses (38-39 credits):
   - AS A253 Applied Statistics for the Sciences (4) 3-4
   - or
   - AS A307 Probability and Statistics (3) 3
   - AS A308 Intermediate Statistics* 3
   - CHEM A105/L General Chemistry I 4
   - CHEM A106/L General Chemistry II 4
   - CHEM A321 Organic Chemistry I 4
   - CHEM A322 Organic Chemistry II 4
   - MATH A200 Calculus I 4
   - MATH A201 Calculus II 4
   - PHYS A123/L Basic Physics I (4) 8
   - and
   - PHYS A124/L Basic Physics II (4)
   - or
   - PHYS A211/L General Physics I (4)
   - and
   - PHYS A212/L General Physics II (4)

*It is recommended that AS A308 be taken. Students may substitute AS A308 with 3 upper-division biology credits.

3. Complete biology core courses (28 credits):
   - BIOLA105 Fundamentals of Biology I 4
   - BIOLA106 Fundamentals of Biology II 4
   - BIOLA252 Principles of Genetics 4
   - BIOLA308 Principles of Evolution 3
   - BIOLA310 Animal Physiology (3) 3
   - BIOLA361 Cell Biology (3)
   - BIOLA492 Undergraduate Seminar 1
   - or
   - BIOLA340 General Microbiology 5
   - BIOLA371 Principles of Ecology 4
   - BIOLA492 Undergraduate Seminar 1

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4. Complete 15-16 credits of upper-division program electives from the following list:

**NOTE:** Preprofessional students may substitute CHEM A441-A442 Principles of Biochemistry and A443 Biochemistry Laboratory for 8 upper-division biology credits.

A. **Recommended electives in Cellular and Molecular Biology:**

**Cellular-Molecular**
- BIOLA310 Animal Physiology (3)
- or
- BIOLA361 Cell Biology (3)
- BIOLA352 Human Genetics (3)
- BIOLA362 Cell Biology Laboratory (3)
- BIOLA412 Endocrinology (3)
- BIOLA461 Molecular Biology (3)
- BIOL/CHEM A471 Immunochemistry (4)
- BIOLA488 Developmental Biology (4)

**Zoology**
- BIOLA327 Parasitology (4)
- BIOLA487 Comparative Anatomy of Vertebrates (4)

**Techniques**
- BIOLA403 Microtechnique (4)
- BIOLA495 Instructional Practicum: Laboratory (1)

B. **Recommended elective courses in Organismal, Ecology and Evolutionary Biology:**

**Botany**
- BIOLA331 Systematic Botany (4)
- BIOLA333 Biology of Non-Vascular Plants (4)
- BIOLA334 Biology of Vascular Plants (4)
- BIOLA439 Plant Ecology Field Course (3)

**Zoology**
- BIOLA327 Parasitology (4)
- BIOLA423 Ichthyology (4)
- BIOLA425 Mammalogy (4)
- BIOLA426 Ornithology (4)
- BIOLA427 Invertebrate Zoology (4)
- BIOLA487 Comparative Anatomy of Vertebrates (4)

**Ecology-Systems**
- BIOLA309 Biogeography (3)
- BIOLA310 Animal Physiology (3)
- or
- BIOLA361 Cell Biology (3)
- BIOLA373 Environmental Biology (3)
- BIOLA375 Terrestrial Ecosystems (3)
- BIOLA378 Marine Biology (3)
- BIOLA441 Animal Behavior (4)
- BIOLA475 Arctic Tundra Ecosystems (3)
- BIOLA476 Boreal Ecosystems (3)

**Techniques**
- BIOLA403 Microtechnique (4)
- BIOLA495 Instructional Practicum: Laboratory (1)

C. **Special topics, independent study and individual research**

(credits arranged):
- BIOLA497 Independent Study in Biology
- BIOLA498 Individual Research

5. A total of 122-125 credits is required for the degree, of which 42 credits must be upper-division.

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**BACHELOR OF SCIENCE, NATURAL SCIENCES**

The Department of Biological Sciences also oversees the Bachelor of Science in Natural Sciences. This curriculum emphasizes the interrelationships among the sciences. This flexible degree program can be used to meet admissions requirements of specific professional schools in medicine, dentistry, and veterinary medicine. It is also designed for health sciences practitioners who wish to obtain a stronger background in both the biological and chemical sciences.

For a complete program description see the Natural Sciences section of this chapter.

**MINOR, BIOLOGICAL SCIENCES**

Students majoring in another subject who wish to minor in Biological Sciences must complete the following requirements. A total of 24 credits is required for the minor, 12 of which must be upper-division.

- BIOLA105 Fundamentals of Biology I 4
- BIOLA106 Fundamentals of Biology II 4
- BIOLA252 Principles of Genetics 4

**Upper-division Biology electives** 12

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**FACULTY**

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CANADIAN STUDIES

College of Arts & Sciences Building (CAS), Room 359, (907) 786-4856

In the Fall of 1987, UAA embarked upon a modest Canadian Studies Program designed to fit into the UAA mission with its focus on the Pacific Rim and Circumpolar regions.

The foundation for the UAA Canadian Studies Program is a two-semester, multidisciplinary, 6 credit course sequence on Canada. The first semester provides a basic overview of Canadian geography, anthropology, history, sociology, economics, and politics. During the second semester, students are introduced to significant contemporary Canadian issues from a variety of perspectives. These include the status of aboriginal peoples in Canada; Quebec and the current constitutional crisis; Canadian health, sports, and physical fitness; and NAFTA and US/Canadian economic relations. A two-semester Canadian history sequence is regularly offered, as are other Canadian selected topics. Selected topics courses have included Canadian Energy and Resource Development; Quebec; the Canadian Political System; the Canada-US Free Trade System; Canadian Social History; and Strategies for Environmental and Cultural Self-Determination.

A minor in Canadian Studies is available at UAA. The purpose of the minor is to offer students who have an interest in Canada the opportunity to combine a broad introduction to Canada with more detailed study of certain aspects of Canadian society. Students wishing to complete a minor in Canadian Studies must obtain prior approval for their program of study from the Director of Canadian Studies, CAS Building, Room 362, (907) 786-4856.

MINOR, CANADIAN STUDIES

Students majoring in another subject who wish to minor in Canadian Studies must complete the following requirements. A total of 18 credits is required for the minor.

1. Complete the following required courses (9 credits):
   - INTLA301 Canada: Introductory Survey 3
   - INTLA302 Canada: Contemporary Issues 3
   - INTLA303 Canada: Selected Topics 3

2. Complete 9 credits of approved electives 9

The courses listed below are potentially applicable to the Canadian Studies Minor. Students will also be permitted to count special topics courses and independent study courses that focus specifically on Canada, and may repeat INTLA302, A303, and A304 for credit with change of subtitle.

Note: To ensure adequate Canadian content when taking elective courses for the minor, the student must demonstrate that research and papers prepared for these courses focus on Canada.

- ANTH A416 Arctic Archaeology (3)
- ANTH A426 Arctic Ethnology (3)
- ANTH A335 Native North Americans (3)
- ANTH A371 Selected Topics in Anthropology (1-3)
- ANTH A435 Northwest Coast Cultures (3)
- ART A365 Native Art of Alaska (3)
- BIOLA475 Arctic Tundra Ecosystems (3)
- ECON A415 Urban and Regional Economics (3)
- ECON A423 Comparative Economic Systems (3)
- ECON A435 Economics of Resources (3)
- ECON A463 International Economics (3)
- ENGLA383 Film Interpretation (3)
- ENGLA440 Topics in 20th Century Comparative Literature (3)
- FREN A432 Studies of Literature and Culture (3)
- GEOG A207B Edge of Fire: A Physical Geography of the American West (3)
- HIST A341 History of Alaska (3)
- HIST A431 Colonies and Revolution (3)
- HIST A434 Early National Period: 1800-1850 (3)
- INTLA303 Canada: Selected Topics (3)
- INTLA304 Canada: Field Study Tour (1)
- INTL/HIST A374 History of Canada to 1867 (3)
- INTL A375 History of Canada Since 1867 (3)
- JUST A365 Comparative Justice Systems (3)
- PS A312 Comparative Politics: Case Studies (3)
- PS A321 International Relations (3)
- PS/AKNS A411 Tribes, Nations and Peoples (3)
- PS A424 International Law and Organization (3)
- PS A490 Studies in Politics (1-3)

FACULTY

Diddy R.M. Hitchins, Director, AFDH1@uaa.alaska.edu
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 or 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 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.

HIGH SCHOOL PREPARATION

The Bachelor of Science degree in Chemistry with options in Chemistry or Biochemistry is a four year baccalaureate program which assumes a proper high school preparation. Consult the College of Arts and Sciences list of recommended preparatory courses in all disciplines. The specific course work which a freshman student must have mastered for admission to the Chemistry program without a deficiency includes:

English 4 years
Mathematics
Algebra 2 years
(This must have included at least complex numbers, logarithms, quadratic functions, inequalities and absolute values, plus conic sections.)
Geometry 1 year
Trigonometry 1/2 year
Natural Sciences
Physics 1 year
(This must cover mechanics, thermodynamics, electricity and magnetism, and optics.)
Chemistry 1 year
(This must cover elementary laboratory procedures, introduction to atoms and molecules, chemical reactions, equilibrium, and an introduction to chemical calculations.)

It is strongly recommended that students graduating from high school without the preparation indicated above enroll in available non-science courses during the summer session to make up deficiencies so that they can begin the fall semester with the correct sequence of the freshman Chemistry curriculum. If this is not done, it will be necessary to carry heavier course loads or take more than eight semesters to complete the degree. Students are reminded that it is imperative for them to regularly (at least once per semester) consult a departmental advisor to evaluate their progress through the program of study.

BACHELOR OF SCIENCE, CHEMISTRY

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements located at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the baccalaureate general education requirements listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

Students are strongly encouraged to talk to a faculty advisor in the Chemistry Department to insure that the necessary math and science courses are taken in the first two years of study.

1. Students working toward a degree in Chemistry can choose one of two options:

Chemistry Option

Complete the following required courses (72 credits):

CHEM A105 General Chemistry I 3
CHEM A105L General Chemistry I Lab 1
CHEM A106 General Chemistry II 3
CHEM A106L General Chemistry II Lab 1
CHEM A212 Quantitative Analysis 5
CHEM A321 Organic Chemistry I 4
CHEM A322 Organic Chemistry II 4
CHEM A331 Physical Chemistry I 3
CHEM A332 Physical Chemistry II 5
CHEM A434 Instrumental Methods 4
CHEM A452 Inorganic Chemistry I 3
CHEM A453 Inorganic Chemistry II 5
CHEM A492 Undergraduate Seminar (1) 2
CHEM A498 Individual Research (3) 6
MATH A200 Calculus I 4
MATH A201 Calculus II 4
MATH A202 Calculus III 4
MATH A302 Ordinary Differential Equations 3
PHYS A211/L General Physics I 4
PHYS A212/L General Physics II 4
Biochemistry Option

Complete the following required courses (73 credits):

- CHEM A105 General Chemistry I 3
- CHEM A105L General Chemistry I Lab 1
- CHEM A106 General Chemistry II 3
- CHEM A106L General Chemistry II Lab 1
- CHEM A212 Quantitative Analysis 5
- CHEM A311 Physical Chemistry: A Biological Orientation 3
- CHEM A321 Organic Chemistry I 4
- CHEM A322 Organic Chemistry II 4
- CHEM A343 Instrumental Methods 4
- CHEM A441 Principles of Biochemistry I 3
- CHEM A442 Principles of Biochemistry II 3
- CHEM A443 Biochemistry Laboratory 2
- CHEM A492 Undergraduate Seminar (1) 2
- CHEM A498 Individual Research (3) 6
- MATH A200 Calculus I 4
- MATH A201 Calculus II 4
- MATH A202 Calculus III 4
- PHYS A123/L Basic Physics I (4) 8
- or
- PHYS A124/L Basic Physics II (4)
- or
- PHYS A211/L General Physics I (4) and
- PHYS A212/L General Physics II (4)

Upper-division Biology credits 9

2. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

MINOR, CHEMISTRY

Students majoring in another subject who wish to minor in Chemistry must complete the following requirements. A total of 24 credits is required for the minor.

- CHEM A105 General Chemistry I 3
- CHEM A105L General Chemistry I Lab 1
- CHEM A106 General Chemistry II 3
- CHEM A106L General Chemistry II Lab 1
- CHEM A212 Quantitative Analysis 5
- CHEM A311 Physical Chemistry: A Biological Orientation 3
- CHEM A321 Organic Chemistry I 4
- CHEM A322 Organic Chemistry II 4

FACULTY

Eric Holmberg, Associate Professor/Chair, AFEGH@uaa.alaska.edu
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Jerzy Maselko, Associate Professor, AFJM1@uaa.alaska.edu
Maurice Riner, Lab Instructional Tech, AFMER@uaa.alaska.edu
Ram Srinivasan, Professor, AFRS2@uaa.alaska.edu

COMMUNICATION

[Website] www.uaa.alaska.edu/comm/

Classroom Building K (K), Room 205, (907) 786-4390

The study of communication provides students with an understanding of how individuals create and interpret verbal and nonverbal messages in a variety of contexts. The minor is a broad introduction to human communication, including communication theory and practical experience in the areas of intercultural, interpersonal, organizational, small group, and public communication.

MINOR, COMMUNICATION

Students majoring in another subject who wish to minor in Communication must complete the following requirements.

A total of 18 credits are required for the minor, of which 6 must be upper-division.

Select 9 credits from the following:

- COMM A101 Introduction to Human Communication (3)
- COMM A111 Fundamentals of Oral Communication (3)
- COMM A235 Small Group Communication (3)
- COMM A237 Interpersonal Communication (3)
- COMM A241 Public Speaking (3)

Select 9 credits from the following:

- COMM A236 Interviewing (3)
- COMM A305 Intercultural Communication (3)
- COMM A320 Debate and Deliberation (3)
- COMM A340 Nonverbal Communication (3)
- COMM A346 Oral Interpretation (3)
- COMM A360 Forensics (3)
- COMM A380 Theories of Human Communication (3)
- COMM A390 Selected Topics in Communication (3)
- COMM A412 Persuasion (3)

Note: Selected Topics classes may be repeated once with change in subtitle.

FACULTY

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Steve Johnson, Assistant Professor, AFSLJ1@uaa.alaska.edu
Barbara Mishler, Professor, PFBEM@uaa.alaska.edu
Doug Parry, Professor, AFDJP@uaa.alaska.edu
Marcia Stratton, Associate Professor/Chair, AFMRS@uaa.alaska.edu
Shawnalee Whitney, Assistant Professor, AFSAW@uaa.alaska.edu
COMPUTER SCIENCE

The Department of Mathematical Sciences offers courses covering the major areas of computer science. These courses constitute the basis for an undergraduate major which prepares students for a variety of professional and technical careers in business, industry, and government or for graduate work leading to advanced degrees. In addition, the department offers courses for students from other fields who will use computer science as a tool in their own areas.

Students interested in computer science will be advised with respect to computer science courses by the department so they may profitably pursue their academic and professional interests.

Since computer science is a very diverse discipline, four different degree paths are offered. There are three Bachelor of Science options: Scientific Computing, Computer Science, and Information Science; there is also a Bachelor of Arts in Computer Science. All of the paths provide a solid foundation in computer science that conforms to the 1991 computing curriculum guidelines jointly developed by the Association for Computing Machinery (ACM) and IEEE Computer Society. The paths differ in the set of advanced topics courses used to specialize the degree. Two computer science degree paths are very similar, the Bachelor of Arts in Computer Science, and the Information Sciences Option of the Bachelor of Science. The BA program gives the student the opportunity to obtain a liberal arts background while the BS path requires the student to pursue a sciences background. Both of these paths prepare the student to pursue a professional career as a software engineer. The Computer Science option of the Bachelor of Science is a traditional computer science program; this option provides the student with a broad technical background in computer science which will serve both the student pursuing a career as a software professional and the student intending to pursue a graduate degree in computer science. The Scientific Computing option prepares the student for a career in scientific or engineering computing; this option provides the student with the concepts and techniques needed to model and analyze complex, real-world systems.

Each student taking any computer science course(s) will be charged a single lab fee for the semester. (Applies to Elmendorf or Fort Richardson classes only when specifically annotated in the schedule. This fee does not apply to Eagle River computer science courses).

BACHELOR OF ARTS, COMPUTER SCIENCE

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences requirements for a BA degree listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

1. Complete the following core courses (46 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS A101</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CS A201</td>
<td>Programming Concepts I</td>
<td>3</td>
</tr>
<tr>
<td>CS A202</td>
<td>Programming Concepts II</td>
<td>3</td>
</tr>
<tr>
<td>EE A241</td>
<td>Computer Hardware Concepts I</td>
<td>4</td>
</tr>
<tr>
<td>CS A221</td>
<td>Computer Organization and Assembly Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS A315</td>
<td>Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS A320</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS A330</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CS A331</td>
<td>Programming Language Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CS A360</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS A371</td>
<td>Quantitative Methods for the Information Sciences</td>
<td>3</td>
</tr>
<tr>
<td>CS A401</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CS A413</td>
<td>Computer and Data Security</td>
<td>3</td>
</tr>
<tr>
<td>CS A414</td>
<td>Information Systems Planning and Management</td>
<td>3</td>
</tr>
<tr>
<td>CS A470</td>
<td>Applied Software Development Project</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Complete these required support courses (15-17 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH A231</td>
<td>Introduction to Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH A270</td>
<td>Applied Finite Mathematics for the Managerial Sciences (3)</td>
<td>3-4</td>
</tr>
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</table>

or

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH A107</td>
<td>College Algebra (4)</td>
<td>3</td>
</tr>
<tr>
<td>MATH A272</td>
<td>Calculus for Managerial Sciences (3)</td>
<td>3-4</td>
</tr>
</tbody>
</table>

or

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH A200</td>
<td>Calculus I (4)</td>
<td>3</td>
</tr>
<tr>
<td>AS A252</td>
<td>Elementary Statistics</td>
<td>3</td>
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<tr>
<td>AS A307</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ENGLA312</td>
<td>Advanced Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

3. Complete an additional 15 upper-division credits in Computer Science, Mathematics (excluding MATH A420, and MATH A495), or Applied Statistics. Six of these credits must be earned in Computer Science courses.

4. A grade of “C” or higher must be received in all MATH, CS and AS courses required to satisfy the above program requirements.
5. The program, including electives, must be approved by an academic advisor from the Mathematical Sciences Department. Students are encouraged to develop their program with a Mathematical Sciences advisor early in their studies; failure to do so may cause delay in graduation or require taking additional courses.

6. A total of 122-124 credits is required for the degree, of which 42 credits must be upper-division.

**BACHELOR OF SCIENCE, COMPUTER SCIENCE**

**ADMISSION REQUIREMENTS**
Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

**GRADUATION REQUIREMENTS**
Students must complete the following graduation requirements:

A. **GENERAL UNIVERSITY REQUIREMENTS**
Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

B. **GENERAL EDUCATION REQUIREMENTS**
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. **COLLEGE OF ARTS AND SCIENCES REQUIREMENTS**
Complete the College of Arts and Sciences requirements for a BS degree listed at the beginning of the CAS section.

D. **MAJOR REQUIREMENTS**
1. Complete the following core courses (28 credits):
   - CS A101 Introduction to Computer Science 3
   - CS A201 Programming Concepts I 3
   - CS A202 Programming Concepts II 3
   - EE A241 Computer Hardware Concepts I 4
   - CS A221 Computer Organization and Assembly Programming 3
   - CS A320 Operating Systems 3
   - CS A330 Data Structures and Algorithms 3
   - CS A331 Programming Language Concepts 3
   - CS A470 Applied Software Development Project 3

2. Complete the following required support courses (29 credits):
   - MATH A200 Calculus I 4
   - MATH A201 Calculus II 4
   - MATH A302 Calculus III 4
   - MATH A231 Introduction to Discrete Mathematics 3
   - ENGLA307 Probability and Statistics 3
   - PHYS A123/L Basic Physics I (4) 4
   - PHYS A211/L General Physics I (4) 4
   - PHYS A124/L Basic Physics II (4) 4
   - PHYS A212/L General Physics II (4) 4
   - ENGLA312 Advanced Technical Writing 3

3. Take all required courses in one of the three options listed below (18 credits):

   **Information Sciences Option**
   - CS A315 Information Systems 3
   - CS A360 Database Systems 3
   - CS A371 Quantitative Methods for the Information Sciences 3
   - CS A401 Software Engineering 3
   - CS A413 Computer and Data Security 3
   - CS A414 Information Systems Planning and Management 3

   **Scientific Computing Option**
   - CS A310 Numerical Methods 3
   - CS A381 Optimization Techniques 3
   - CS A430 Computer Modeling and Simulation 3
   - MATH A302 Ordinary Differential Equations 3
   - MATH A314 Linear Algebra 3
   - MATH A371 Probability Models 3

   **Computer Science Option**
   - CS A411 Design and Analysis of Algorithms 3
   - CS A431 Compilers: Concepts and Techniques (3) 3
   - or
   - CS A448 Computer Architecture (3)
   - CS A450 Automata, Languages and Computability 3
   - MATH A306 Discrete Methods 3
   - MATH A314 Linear Algebra 3
   - MATH A371 Probability Models 3

4. Complete an additional 12 upper-division credits in Computer Science, Mathematics (excluding MATH A420, and MATH A495) or Applied Statistics. Six of these credits must be earned in Computer Science courses.

5. A grade of “C” or higher must be received in all MATH, CS, and AS courses required to satisfy the above program requirements.

6. The program, including electives, must be approved by an academic advisor from the Mathematical Sciences Department. Students are encouraged to develop their program with a Mathematical Sciences advisor early in their studies; failure to do so may cause delay in graduation or require taking additional courses.

7. A total of 122 credits is required for the degree, of which 42 credits must be upper-division.

**RECOMMENDED COURSE SEQUENCE**
For BS in CS with Information Sciences Option

**First Year**

**Fall**
- CS A101 Introduction to Computer Science 3
- MATH A200 Calculus I 4
- ENGLA111 Methods of Written Communications 3
- Oral Communications Skills (GER) 3
- Social Sciences (GER) 3

**Spring**
- CS A201 Programming Concepts I 3
- MATH A201 Calculus II 4
- MATH A231 Introduction to Discrete Mathematics 3
- ENGLA212 Technical Writing 3
- Social Sciences (GER) 3
### Second Year

<table>
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<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tr>
<td>Fall</td>
<td>CS A202</td>
<td>Programming Concepts II</td>
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<td>MATH A202</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>EE A241</td>
<td>Computer Hardware Concepts</td>
<td>4</td>
</tr>
<tr>
<td></td>
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<td>Natural Sciences Sequence (CAS BS Requirement)</td>
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<tr>
<td>Spring</td>
<td>CS A330</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CS A221</td>
<td>Computer Organization and Assembly Programming</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CS A371</td>
<td>Quantitative Methods for the Information Sciences</td>
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<tr>
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<td>Natural Sciences Sequence (CAS BS Requirement)</td>
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<tr>
<td></td>
<td>AS A307</td>
<td>Probability and Statistics</td>
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### Third Year

<table>
<thead>
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<th>Semester</th>
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<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>CS A331</td>
<td>Programming Language Concepts</td>
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<td></td>
<td>CS A315</td>
<td>Information Systems</td>
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<td></td>
<td>CS Upper-division Elective</td>
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<tr>
<td></td>
<td>PHYS A123/Lor A211/L Basic/General Physics I</td>
<td>4</td>
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<td></td>
<td>Humanities GER and CAS BS Requirement</td>
<td>3/4*</td>
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<tr>
<td>Spring</td>
<td>CS A320</td>
<td>Operating System</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CS A360</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CS, Math or AS Upper-division Elective</td>
<td>1/3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHYS A124/Lor A212/L Basic/General Physics II</td>
<td>4</td>
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<td>Humanities GER and CAS BS Requirement</td>
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### Fourth Year

<table>
<thead>
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<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>CS A401</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
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<td></td>
<td>CS A413</td>
<td>Computer and Data Security</td>
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<td>CS, Math or AS Upper-division Elective</td>
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<td>ENGLA312</td>
<td>General Elective</td>
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<td></td>
<td></td>
<td>Information Systems Planning and Management</td>
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<td>CS, Math or AS Upper-division Elective</td>
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<td></td>
</tr>
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<td></td>
<td>CS A470</td>
<td>Applied Software Development Project</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>Fine Arts (GER)</td>
<td>3</td>
</tr>
</tbody>
</table>

* If 6-credit humanities sequence taken, 3 additional credits are needed to satisfy the 122 credit graduation requirement.

### Minor, Computer Science

Students majoring in another subject who wish to minor in Computer Science must complete the following requirements:

1. Complete the five required courses:
   - CS A101 Introduction to Computer Science 3
   - CS A201 Programming Concepts I 3
   - CS A202 Programming Concepts II 3
   - EE A241 Computer Hardware Concepts I 4
   - CS A221 Computer Organization and Assembly Programming 3

2. Complete 9 credits of upper-division Computer Science courses.

3. A total of 25 credits is required for the minor.

### Faculty

- William Gordon, Associate Professor, AFWLG@uaa.alaska.edu

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### Creative Writing and Literary Arts

#### Minor, Creative Writing and Literary Arts

Students majoring in another subject who wish to minor in Creative Writing and Literary Arts must complete the following requirements.

1. Complete 12 credits from the following list of undergraduate writing workshops and magazine production course offerings. Note that at least 6 credits must be upper division:
   - CWLAA259 Short Format Introduction to Creative Writing (1)
   - CWLAA260 Introduction to Creative Writing (3)
   - CWLAA261 Art/Literary Magazine Production (3)
   - CWLAA352 Undergraduate Writer’s Workshop: Poetry (3)
   - CWLAA362 Undergraduate Writer’s Workshop: Fiction (3)
   - CWLAA372 Undergraduate Writer’s Workshop: Nonfiction (3)
   - CWLAA382 Undergraduate Writer’s Workshop: Drama for Stage and Screen (3)

2. Complete 6 credits from the following:
   - CWLAA461 Writing and Gender (3)
   - CWLAA490 The Writer’s Craft (3)

3. A total of 18 credits is required for the minor.

### Minor with Distinction, Creative Writing and Literary Arts

Students majoring in another subject who wish to minor in Creative Writing and Literary Arts with Distinction will be required to produce a thesis project in consultation with their advisor, consisting of approximately 30 pages of fiction, creative nonfiction, drama, or poetry, prefaced by an analytical essay and followed by an annotated bibliography. For a CWLAMinor with Distinction, a student must maintain a GPA of 3.5 in the minor.

1. Complete 9 credits from the following list of undergraduate writing workshops and magazine production course offerings. Note that at least 6 credits must be upper division:
   - CWLAA259 Short Format Introduction to Creative Writing (1)
   - CWLAA260 Introduction to Creative Writing (3)
   - CWLAA261 Art/Literary Magazine Production (3)
   - CWLAA352 Undergraduate Writer’s Workshop: Poetry (3)
   - CWLAA362 Undergraduate Writer’s Workshop: Fiction (3)
   - CWLAA372 Undergraduate Writer’s Workshop: Nonfiction (3)
   - CWLAA382 Undergraduate Writer’s Workshop: Drama for Stage and Screen (3)

2. Complete 6 credits from the following:
   - CWLAA461 Writing and Gender (3)
   - CWLAA490 The Writer’s Craft (3)

3. Complete the following required project:
   - CWLAA499 Thesis (3)

4. A total of 18 credits is required for the minor.

### Faculty

- Ronald Spatz, Chair/Professor, AFRMS1@uaa.alaska.edu
- Nancy Lord, Visiting Associate Professor
- Linda McCarriston, Professor, AFLJM@uaa.alaska.edu
ENGLISH

www.engl.uaa.alaska.edu/english

The programs offered by the Department of English provide an opportunity for a truly liberal education, one that encourages both self-discovery and an exploration of enduring ideas. The curriculum includes courses in composition, rhetoric, literature, linguistics, and study and thinking strategies. The composition program provides courses that fulfill the university's general education requirement in written communication. More advanced writing courses offer opportunities for students to develop skill in electronic communication, disciplinary writing, and research.

Students who major in English choose one of two options: literature or rhetoric. The literature option focuses on significant examples of literature from different periods and genres, as well as the social and cultural forces that shape them. The rhetoric option focuses on rhetorical strategies and techniques of composition, emphasizing historical and theoretical perspectives in contemporary settings. Both options prepare majors to conduct research in the discipline and to write for a variety of purposes and audiences. In addition, both options offer the opportunity to earn honors in English.

The minor in English enhances the experience of students majoring in other subjects by providing a study of significant authors and literary works, as well as by developing skills in writing and critical analysis.

For information on English placement tests, challenge exams, transfer credits, petition procedures, or special registration, contact the English Department. For information on college-level credit courses in English-As-A-Second Language (ESL), also contact the Department of English.

HONORS IN ENGLISH

The Department of English recognizes exceptional undergraduate students by awarding them Departmental Honors in English and noting the award on their permanent university transcript. Honors in English may be coordinated with the UAA Honors Program. To graduate with Departmental Honors, the student must be a declared English major and meet the following requirements:

1. Complete the following core courses (15 credits):
   - ENGLA202 Masterpieces of World Literature II 3
   - ENGLA204 Shakespeare 3
   - ENGLA235 Poetry 3
   - ENGLA440 Topics in 20th Century Literature 3
   - ENGLA492 English Honors Seminar 3

2. Complete one of the following options.

   Literature Option (24 credits)
   Complete 3 credits from National Literatures:
   - ENGLA301 Literature of Britain I (3)
   - ENGLA302 Literature of Britain II (3)
   - ENGLA305 Topics in National Literatures (3)
   - ENGLA306 Literature of the United States I (3)
   - ENGLA307 Literature of the United States II (3)

   Complete 3 credits from each Period
   
   Earlier
   - ENGLA310 Ancient Literature (3)
   - ENGLA315 Medieval Literature (3)
   - ENGLA320 Renaissance Literature (3)
   - Middle
   - ENGLA325 Neoclassical Literature (3)
   - ENGLA330 Literature of Romanticism (3)
   - ENGLA340 The Victorian Period (3)
   - Later
   - ENGLA342 The Modernist Period (3)
   - ENGLA343 Contemporary Literature (3)
   - ENGLA440 Topics in 20th Century Comparative Literature (3)

Honors Seminar: Complete ENGLA492, English Honors Seminar, offered yearly in the fall semester. Completion of the English Honors Seminar with a grade of A or B is a prerequisite to enrollment in ENGLA499, English Honors Thesis.

Honors Thesis: Complete ENGLA499, English Honors Thesis, with a grade of A in the judgment of two faculty readers. The thesis must be completed under the guidance of a member of the English faculty and should be 40-50 pages in length.

BACHELOR OF ARTS, ENGLISH

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

Students working toward a degree in English may choose from two options: Literature or Rhetoric.

1. Complete the following core courses (15 credits):
   - ENGLA201 Masterpieces of World Literature I 3
   - ENGLA202 Masterpieces of World Literature II 3
   - ENGLA351 Poetry 3
   - ENGLA424 Shakespeare 3
   - ENGLA440 Topics in 20th Century Literature 3

2. Complete one of the following options.

   Literature Option (24 credits)
   Complete 3 credits from National Literatures:
   - ENGLA301 Literature of Britain I (3)
   - ENGLA302 Literature of Britain II (3)
   - ENGLA305 Topics in National Literatures (3)
   - ENGLA306 Literature of the United States I (3)
   - ENGLA307 Literature of the United States II (3)

   Complete 3 credits from each Period
   
   Earlier
   - ENGLA310 Ancient Literature (3)
   - ENGLA315 Medieval Literature (3)
   - ENGLA320 Renaissance Literature (3)
   - Middle
   - ENGLA325 Neoclassical Literature (3)
   - ENGLA330 Literature of Romanticism (3)
   - ENGLA340 The Victorian Period (3)
   - Later
   - ENGLA342 The Modernist Period (3)
   - ENGLA343 Contemporary Literature (3)
   - ENGLA440 Topics in 20th Century Comparative Literature (3)
Complete 3 credits from Genre:
- ENGLA361 The Novel (3)
- ENGLA363 The Short Story (3)
- ENGLA371 Prose Nonfiction (3)
- ENGLA381 Drama (3)
- ENGLA383 Film Interpretation (3)
- ENGLA391 Genres of Subject and Theme (3)

Complete 3 credits from Specialized Studies:
- ENGLA344 Topics in Native Literatures (3)
- ENGLA345 Topics in Autobiography (3)
- ENGLA347 Topics in Women’s Literature (3)
- ENGLA429 Major Authors (3)
- ENGLA445 Alaska Native Literatures (3)

Complete Upper-division English electives 6

Rhetoric Option (21-23 credits)

Complete the following:
- ENGLA434 History of Rhetoric (3)

Complete 3 credits from Advanced Composition:
- ENGLA311 Advanced Exposition (3)
- ENGLA312 Advanced Technical Writing (3)
- ENGLA414 Research Writing (3)

Complete 9-11 credits from Language:
- ENGLA450 Linguistics and Language Teaching (4)
- ENGLA452 English Grammar and Language Teaching (4)
- ENGLA475 Modern Grammar (3)
- ENGLA476 History of English Language (3)
- ENGLA487 Standard Written English (3)

Complete 3 credits from Literature in Translation:
- ENGLA310 Ancient Literature (3)
- ENGLA344 Topics in Native Literatures (3)
- ENGLA440 Topics in 20th Century Comparative Literature (3)

Complete 3 credits from Earlier Period/Authors:
- ENGLA315 Medieval Literature (3)
- ENGLA320 Renaissance Literature (3)
- ENGLA325 Neoclassical Literature (3)

A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

RECOMMENDED COURSE SEQUENCE:

BA in English (Literature Emphasis)

First Year

Fall Semester (15 credits)
- ENGL 3
- Oral Communications 3
- Cultural Heritages GER 3
- Fine Arts GER 3
- Elective 3

Spring Semester (15 credits)
- ENGL A 211 3
- ENGLA201 or A202 3
- Cultural Heritages GER 3
- Social Behavior GER or Ways of Knowing GER 3
- Elective 3

Second Year

Fall Semester (15 credits)
- ENGLA201 or A202 3
- Ways of Knowing GER or Social Behavior GER 3
- Cultural Heritages GER 3
- Natural Sciences GER 4
- Elective 2

Spring Semester (15 credits)
- Elective 3

RECOMMENDED COURSE SEQUENCE:

BA in English (Rhetoric Emphasis)

First Year

Fall (15 credits)
- ENGL A111 Methods of Written Communication 3
- Oral Communications GER 3
- Cultural Heritages GER 3
- Fine Arts GER 3
- Elective 3

Spring (15 credits)
- ENGL A 212 or A213 3
- ENGLA201 or A202 3
- Cultural Heritages GER 3
- Social Behavior GER or Ways of Knowing GER 3
- Elective 3

Second Year

Fall (15 credits)
- ENGLA201 or A202 3
- Ways of Knowing GER or Social Behavior GER 3
- Cultural Heritages GER 3
- Natural Sciences GER 4
- Elective 2

Spring (15 credits)
- LING A101 or ENGLA351 3
- ENGLiterature in Translation or ENGLEarly Period Course 3
- Cultural Heritages GER 3
- Natural Sciences GER 3
- Elective 3
Third Year
Fall (15 credits)

ENGLA351 or LING A101 3
ENGLEarly Period
or ENGLiterature in Translation Course 3
ENGLanguage Course
or 300-400 Level Elective 3
Quantitative Skills GER
Elective 3

Spring (15 credits)
ENGLA434 3
ENGLA424 or ENGLAdvanced Composition Course 3
300-400 Level Elective or ENGLanguage Course 3
Elective 3
Elective 3

Fourth Year
Fall (15 credits)

ENGLAdvanced Composition Course or ENGLA424 3
ENGLA435 or 300 - 400 level Elective 3
ENGLanguage Course
300 - 400 Level Elective 3
Elective 3

Spring (15 credits)
300-400 Elective (ENGLA495 recommended) or ENGLA4353 3
ENGLanguage Course
300-400 Level Elective 3
Elective 3

MINOR, ENGLISH

Students majoring in another subject who wish to minor in English must complete the following requirements. A total of 18 credits is required for the minor.

LITERATURE EMPHASIS

ENGLA201 Masterpieces of World Literature I 3
ENGLA202 Masterpieces of World Literature II 3
ENGLA351 Poetry 3
ENGLA424 Shakespeare 3
ENGLA435 History of Criticism 3
Upper-division English electives 3

PROFESSIONAL WRITING EMPHASIS

ENGLA212 Technical Writing 3
ENGLA213 Writing in the Social and Natural Sciences (3)
ENGLA311 Advanced Exposition 3
ENGLA312 Advanced Technical Writing 3
ENGLA414 Research Writing 3
ENGLA495 Internship in Professional Writing 3
Upper-division elective approved by the English Department 3

FACULTY

Patricia Linton, Associate Professor/Chair, AFPWL@uaa.alaska.edu
Genie Babb, Associate Professor, AFGNB@uaa.alaska.edu
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Paula Guetschow, Associate Professor, AFPJG@uaa.alaska.edu
Alice Sears, Professor, AFALS@uaa.alaska.edu
Toby Widdicombe, Associate Professor, AFRTW@uaa.alaska.edu

ENVIRONMENTAL STUDIES

www.uaa.alaska.edu/envi/
AYENVI@uaa.alaska.edu

Institute of Social and Economic Research, Library Building (LIB), Room 207C, (907) 786-1753

Which is better: paper or plastic? How wet is a wetland? What are xenosterogens and polycyclic aromatic hydrocarbons, and why should we care? Is sustainable development possible? Is global warming real?

Addressing today’s environmental issues requires skills in the natural and social sciences, a coherent ethical stance informed by knowledge of history, other cultures, and the humanities, and the ability to think critically in an interdisciplinary way. UA offers two ways for undergraduates to increase their environmental literacy. The interdisciplinary minor in Environmental Studies allows students to organize a portion of their studies around the environment and begin to acquire problem-solving skills that combine sound science with an appreciation of economic, social and ethical trade-offs. In addition, the introductory courses ENVI A201-A202 by themselves offer a broad-based introduction to the field and its many relationships to other disciplines.

MINOR, ENVIRONMENTAL STUDIES

Students majoring in another subject who wish to minor in Environmental Studies must complete the following requirements. At least 18 credits are required for the minor.

1. Complete the following required core courses (12 credits):
   - ENVI A201 Living on Earth: Introduction to Environmental Studies 3
   - ENVI A202 Earth as an Ecosystem: Introduction to Environmental Science 3
   - BIOLA373 Environmental Biology 3
   - ENVI A492 Proseminar in Environmental Studies 3

2. Complete at least 3 credits of approved electives related to environmental science and engineering. The following courses are automatically approved. Other courses may be approved on a one-time basis by the designated Director of Environmental Studies if a student demonstrates sufficient environmental studies content.
   - BIOLA309 Biogeography (3)
   - BIOLA331 Systematic Botany (4)
   - BIOLA375 Terrestrial Ecosystems (3)
   - BIOLA475 Arctic Tundra Ecosystems (3)
   - BIOLA476 Boreal Ecosystems (3)
   - BIOLA485 Selected Topics in Biology (1-4)
   - CE A344 Water Resources Engineering (3)
   - CE A441 Sanitary Engineering (3)
   - CHEM A450 Environmental Chemistry (3)
   - GIS A370 Remote Sensing and GIS for Natural Resources (3)
   - GEOG A205 Elements of Physical Geography (3)
   - GEOL A115 Environmental Geology (3)
   - GEOL A304 Geomorphology (4)

NOTE: BIOLA485 is conditional on appropriate environmental content as determined by designated Director of Environmental Studies: determination to be made when course content is announced.)
3. Complete at least 3 credits of approved electives related to environmental policy, values, and history. The following courses are automatically approved. Other courses may be approved on a one-time basis by the designated Director of Environmental Studies if a student demonstrates sufficient environmental studies content.

- AKNS A201 Native Perspectives (3)
- ANTH A354 Culture and Ecology (3)
- ANTH A432 Hunting and Gathering Societies (3)
- ECON A435 Economics of Resources (3)
- ENVI/PHILA303 Environmental Ethics (3)
- GEOG A101 Introduction to Geography (3)
- GEOG A343 Historical Geography (3)
- HIST A440 The American West Since 1850 (3)
- JUST A491 Natural Resources Law (3)
- SOC A404 Environmental Sociology (3)

**FACULTY**

*Steve Colt, Director, AFSGC@uaa.alaska.edu*

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**GEOLOGY**

*Beatrice McDonald Building (BMB), Room 214, (907) 786-6840*

Geology is the study of the earth, its composition, and the dynamic systems operating on it. It encompasses the past five billion years of solar system history including fossil life forms and their environments. Exciting new discoveries and revolutionary advances have led to an understanding of plate tectonics, natural resource origin and distribution, and planetary geology. Knowledge of geologic phenomena is essential to deal effectively with issues regarding the environment, natural hazards, changing climate, development of resources and even the survival of life on the planet.

**MINOR, GEOLOGY**

Students majoring in another subject who wish to minor in Geology must complete the following requirements. Completion of 18-20 credits is required for the minor, 8 of which must be upper-division.

- GEOLA111 Physical Geology 4
- GEOLA112 Historical Geology 4
- Upper-division Geology electives 8
- Other Geology electives 2-4

**FACULTY**

*Kristine Crossen, Asst Professor/Chair, AFKJC@uaa.alaska.edu*
*Terry Naumann, Assistant Professor, AFTRN@uaa.alaska.edu*
*Anne Pasch, Emeritus Professor, AHADP@uaa.alaska.edu*
HISTORY

College of Arts & Sciences Building (CAS), Room 330, (907) 786-1535

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 clear view of our limitations, and a glimpse of our potential.

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.

BACHELOR OF ARTS, HISTORY

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

1. Complete the following courses (36 credits):

   - HIST A101 Western Civilization I 3
   - HIST A102 Western Civilization II 3
   - HIST A131 History of United States I 3
   - HIST A132 History of United States II 3
   - HIST A477 Senior Seminar 3
   - Upper-division History electives 15
   - History electives, any level 6

2. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

MINOR, HISTORY

A total of 18 credits is required for the minor, 9 of which must be upper-division.

   - HIST A101 Western Civilization I (3) 6
   - HIST A102 Western Civilization II (3)
   - HIST A131 History of United States I (3)
   - HIST A132 History of United States II (3)
   - Upper-division History electives 9
   - History elective, any level 3

FACULTY

Ronald Crawford, Chair, Professor, AFRMC@uaa.alaska.edu
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Caedmon Liburd, Associate Professor, AFCAL@uaa.alaska.edu
Don Mohr, Professor, AFDEM@uaa.alaska.edu
Bill Myers, Visiting Assistant Professor, AFWLM@uaa.alaska.edu
June Namias, Associate Professor, AFJN@uaa.alaska.edu
Kenneth O'Reilly, Professor, AFKO@uaa.alaska.edu
Dorn Van Dommelen, Associate Professor, AFDV@uaa.alaska.edu
The Department of Journalism and Public Communications offers an undergraduate program leading to the Bachelor of Arts. All majors are required to take a set of core courses and to select one of five options. These options include journalism, public relations and advertising, telecommunication and film, photography, and general communication. Students with special needs may be allowed to take courses from more than one option. The Bachelor of Arts is accredited by the Accrediting Council on Education in Journalism and Mass Communication.

The program is designed to provide students with basic knowledge about gathering and presenting information through the various mass media. These courses also examine the place of media in society, and provide opportunities to examine social, ethical, and legal issues related to communications.

Broad scholarship is emphasized. Study is required in as many other fields as possible, such as anthropology, economics, history, language, philosophy, political science, psychology, sociology, and the sciences. This broad background is essential in preparation for careers in fields which demand a broad range of knowledge of their practitioners. Students selecting the public relations/advertising option are encouraged to take courses in marketing and business administration as part of their elective credits outside the major and the liberal arts requirements.

A journalism endorsement for Alaska State Teacher Certification is available through the School of Education.

BACHELOR OF ARTS, JOURNALISM AND PUBLIC COMMUNICATIONS

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

ACADEMIC PROGRESS

A grade of “C” or better is needed in ENGLA211 or ENGLA212, ENGLA213 and in any JPC course that is a prerequisite before proceeding to the advanced course.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

1. Students must complete 126 credits, of which 90 must be outside the major. (Courses with prefixes other than JPC are considered outside the major). These 90 credits must include 65 credits in liberal arts and sciences courses. Only 36 JPC credits will be accepted toward degree requirements. As long as 90 credits have been completed outside the major, any additional JPC credits, beyond the 36 JPC credit maximum, may be accepted toward other degree requirements. Students should know how to type before enrolling in writing classes. Computers are used in these classes, and students will be asked to write against deadline.

2. Complete all six of the following JPC core courses (18 credits):

   - JPC A101 Introduction to Mass Communication 3
   - JPC A111 Understanding Aural and Visual Communications 3
   - JPC A201 Writing for the Media 3
   - JPC A326 Principles of Advertising 3
   - JPC/JUST A413 Communications Law 3
   - JPC A435 Communication Research 3

3. Complete one of the following six options:

   - Journalism - Option I (18 credits)
     
     Complete 18 credits:
     
     - JPC A212 Editing (REQUIRED) (3)
     - JPC A215 History of Mass Communication (3)
     - JPC/ART A224 Beginning Photography (3)
     - JPC A300 Photographic Imaging (3)
     - JPC A301 Advanced Newswriting (3)
     - JPC A305 Journalistic Interviewing (3)
     - JPC A309 Radio News (3)
     - JPC A311 Magazine Writing (3)
     - JPC A329 Graphics and Publication Design (3)
     - JPC A340 Web Design (3)
     - JPC A341 Broadcast Journalism Production (3)
     - JPC A400 Practicum (1-3)
     - JPC A450 Internship in Journalism (3)
     - JPC A401 Magazine Production (3)
     - JPC A416 Information Age Communication (3)
     - JPC A440 The Press: Issues and Answers (3)
     - JPC A490 Selected Topics in Communication (1-3)

   - Public Relations and Advertising - Option II (18 credits)
     
     Complete 18 credits:
     
     - JPC A212 Editing (REQUIRED) (3)
     - JPC A215 History of Mass Communication (3)
     - JPC/ART A224 Beginning Photography (3)
     - JPC A305 Journalistic Interviewing (3)
     - JPC A320 Principles of Public Relations (3)
     - JPC A328 Advertising Campaign (3)
     - JPC A329 Graphics and Publication Design (3)
     - JPC A330 Advanced Public Relations (3)
     - JPC A340 Web Design (3)
     - JPC A355 Writing for Public Relations (3)
     - JPC A364 Advertising Strategy (3)
     - JPC A365 Advertising Creativity (3)
     - JPC A400 Practicum (1-3)
     - JPC A451 Internship in Public Relations (3)
     - JPC A401 Magazine Production (3)
     - JPC A416 Information Age Communication (3)
     - JPC A440 The Press: Issues and Answers (3)
     - JPC A490 Selected Topics in Communication (1-3)
Telecommunication and Film Option III (18 credits)

Complete 18 credits:

JPC A215 History of Mass Communication (3)
JPC/ART A224 Beginning Photography (3)
JPC A305 Jornalistc Interviewing (3)
JPC A309 Radio News (3)
JPC A310 Audio Production (3)
JPC A316 Producing for Film and Television (3)
JPC A325 Writing for Film and Television (3)
JPC A340 Web Design (3)
JPC A341 Broadcast Journalism Production (3)
JPC A350 Directing for Film and Television (3)
JPC A400 Practicum (1-3)
or
JPC A452 Internship in Telecommunications (3)
JPC A416 Information Age Communication (3)
JPC A440 The Press: Issues and Answers (3)
JPC A490 Selected Topics in Communication (1-3)

Graphic Design Option IV (54 credits)

Complete the following 18 credits: 18

ART A105 Beginning Drawing (3)
ART A111 Two-Dimensional Design (3)
ART A112 Color Design (3)
ART A205 Intermediate Drawing (3)
ART A261 History of World Art I (3)
ART A262 History of World Art II (3)
Complete the following 2D/3D courses (6 credits): 6

ART/JPC A224 Beginning Photography (3)
ART A252 Beginning Graphic Design and Illustration (3)
Complete the following Studio Emphasis courses (15 credits): 15

ART A352 Intermediate Graphic Design (6)
ART A357 Computer Art and Design (3)
ART A452 Advanced Graphic Design (6)
Complete JPC Recommended Electives (15 credits): 15

JPC A316 Producing for Film and Television (3)
JPC A328 Advertising Campaign (3)
JPC A340 Web Design (3)
JPC A350 Directing for Film and Television (3)
JPC A400 Practicum (1-3)
or
JPC A450 Internship in Journalism (3)
JPC A401 Magazine Production (3)
JPC A490 Selected Topics in Communications (1-3)
Any upper division photography course (3)

Photography - Option V (18 credits)

Complete 18 credits:

JPC A215 History of Mass Communication (3)
JPC/ART A224 Beginning Photography (REQUIRED) (3)
JPC A300 Photojournalism (3)
JPC/ART A323 Color Photography (3)
JPC/ART A324 Intermediate Photography (3)
JPC/ART A331 Experimental Photography (3)
JPC A340 Web Design (3)
JPC/ART A367 History of Photography (3)
JPC A400 Practicum (1-3)
or
JPC A453 Internship in Photography (3)
JPC A416 Information Age Communication (3)
JPC/ART A424 Advanced Photography (3)
JPC A440 The Press: Issues and Answers (3)
JPC A490 Selected Topics in Communication (1-3)

General Communication - Option VI

Complete 18 credits:

As a sixth option, students may take a cross section of the above courses upon justification to and approval of advisor.

4. A total of 126 credits is required for the degree, of which 42 credits must be upper-division.

MINOR, JOURNALISM AND PUBLIC COMMUNICATIONS

Students majoring in another subject who wish to minor in JPC must complete the following requirements. A total of 18 credits is required for the minor, 6 of which must be upper-division.

JPC A101 Introduction to Mass Communication 3
JPC A111 Understanding Aural and Visual Communications 3
JPC A201 Writing for the Media 3
Upper-division JPC electives 6
Lower- or upper-division JPC electives 3

FACULTY

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Jim Avery, Professor & Chair, AFJRA2@uaa.alaska.edu
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College of Arts and Sciences
University of Alaska Anchorage 2000-2001 Course Catalog
Chapter 9 Page 111
www.uaa.alaska.edu
Studying Languages prepares a student to live and work in an increasingly interdependent world in which contact with other cultures is becoming more frequent and the appreciation and respect for linguistic and cultural diversity is becoming more important. The Department of Languages offers a Bachelor of Arts degree, a Minor in a single Language, and general coursework for beginning and continuing study of a variety of languages.

The Bachelor of Arts in Languages affords students the option of concentrating on one Emphasis language (Option I), or of studying an Emphasis language in combination with a second language (Option II). These options, and the degree’s use of courses from outside the Department to fulfill major requirements, reflect the diverse context in which students live and work, and recognize the inherent multidisciplinary nature of language study. This flexibility also allows students to select a program most suited to their individual interests and educational and career goals.

The Department of Languages offers French, German, Japanese, Russian, and Spanish as emphasis languages, with additional lower-division courses available in ASL, Chinese, Korean, and Latin. First year courses begin building the foundations of language learning: listening, speaking, reading, and writing. Since language can only be understood within a cultural context, studying culture is included from the first semester. In courses beyond the first year, students expand and refine their language skills and further develop their cultural knowledge.

As an integral part of their education, the Department recommends that all students majoring in Languages study abroad in a country of their target language(s). The NCSAProgram offers study in France and Austria; the Department administers its own exchange program with Magadan International University (Russia); and information is available from the International Student Advisor in Enrollment Services for programs in Japan and Spanish-speaking countries.

The Department of Languages encourages students to study abroad in several ways. Students earning at least 9 credits (with a “B” or better) in a single, approved Study Abroad experience may have all transferred credits approved by the Department from such programs used to satisfy major requirements. In addition, such students may request waiver of up to eight credits from the requirements necessary to complete the major under either Option. If completing Option II, such waiver may apply to requirements for either the Emphasis or the second language, as appropriate. See the Department for specific policies regarding transferring credits and satisfying major requirements with study abroad experience.
Option II: Dual Languages
1. Choose an emphasis language from French, German, Japanese, Russian, or Spanish; and a second language from among those, or in Alaska Native Languages, American Sign Language, Chinese, Korean, or Latin. Other secondary languages may be chosen upon written approval of the Department.
2. Complete the required core course:
   LING A101 The Nature of Language 3
3. Complete required courses in the emphasis language:
   A201-A202 Intermediate I and II 8
   A301-A302 Advanced I and II 8
4. Complete 9 credits of upper-division electives in or related to the emphasis language or culture, at least 6 of which must be taught in the emphasis language (see Department for list of approved courses taught in English). 9
5. Complete 8 credits in the second language 8

2. Students must petition to substitute Study Abroad/Immersion experience language courses for certain major requirements and possible waiver of up to 8 credits of major requirements.
3. Students may not earn a major and minor(s) in the same language(s).
4. The degree program must be approved and signed by the Department of Languages.
5. Students must take at least 6 upper-division credits, in the respective language, in courses numbered higher than 302 in residence. Only one of these credits can be earned through tutoring.
6. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

LANGUAGE CREDIT BY PLACEMENT
An accepted, degree-seeking UAA student who has completed in residence a Department of Languages UAA catalog course with a grade of “B” or better is eligible to receive credit for the two immediately preceding courses, if any, up to a total of eight credits. This policy does not apply to credit earned through the College Board Advanced Placement Examination Program, nor to Special Topics (-93), Independent Study (-97), Language Self Study (LANG prefix), or Department of Languages literature or culture courses. In order to receive credit the student must complete the appropriate form in Enrollment Services and pay an administrative fee.

MINOR, LANGUAGES
Students who wish to minor in languages must complete the following requirements: a total of 19 credits at or above the 200-level with at least 11 credits being upper division. Credits must be in one discipline chosen from the following languages:
   French
   Russian
   German
   Spanish
   Japanese
   A comprehensive examination attesting to the student's oral and written proficiency in the language is required.

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MATHEMATICS
saturn.math.ualaska.edu
College of Arts & Sciences Building (CAS), Room 154, (907) 786-1742/4924

The Department of Mathematical Sciences offers a Bachelor of Science degree and a Bachelor of Arts degree in mathematics.

The baccalaureate degree programs in mathematics offer an excellent foundation for any career involving theoretical or applied mathematics. Well-trained mathematicians are in demand in many sectors of society including business, finance, education, computing, and government. The Department of Mathematical Sciences offers student tutoring and computer-assisted tutoring for those students needing additional assistance in mathematics.

In addition, the Department of Mathematical Sciences offers courses and programs for those students who wish to:
   a. Obtain an Associate of Applied Science degree
   b. Obtain an Associate of Arts degree
   c. Obtain a Certificate
   d. Study mathematics for use in another discipline.
   e. Improved job-related mathematics skills.
   f. Study mathematics for self-interest

Students interested in obtaining Teacher Certification to teach mathematics, or intending to apply to the MAT program at UAA, must see a mathematics faculty advisor and an advisor from the School of Education.

HONORS IN MATHEMATICS
Students majoring in Mathematics are eligible to graduate with Departmental Honors if they satisfy the following requirements:
1. Meet the requirements for “Graduation with Honors” as listed in chapter 8 of this UA catalog.
2. Meet the requirements for a BA/BS degree in Mathematics.
3. Earn grade point average of 3.5 or above in the major requirements.
4. Complete a minimum of twelve upper-division credits required for the major in residence.
5. Students intending to graduate with Departmental Honors must notify the Chair of the Mathematical Sciences Department, in writing, on or before the date they file their Application for Graduation with the Enrollment Services Office.

BACHELOR OF ARTS, MATHEMATICS

BACHELOR OF SCIENCE, MATHEMATICS

ADMISSION REQUIREMENTS
Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.
B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences requirements for either a BA or BS degree listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

1. Complete the following courses (35 credits):

   - AS A307 Probability and Statistics 3
   - MATH A200 Calculus I 4
   - MATH A201 Calculus II 4
   - MATH A202 Calculus III 4
   - MATH A215 Introduction to Mathematical Proofs 2
   - MATH A302 Ordinary Differential Equations 3
   - MATH A303 Introduction to Modern Algebra 3
   - MATH A314 Linear Algebra 3
   - MATH A321 Analysis of Several Variables 3
   - MATH A324 Advanced Calculus 3
   - MATH A410 Introduction to Complex Analysis (3) 3
   - MATH A422 Partial Differential Equations (3) 3

2. Complete 9 additional upper division credits in approved courses using advanced mathematics.

3. The program, including electives, must be developed with an academic advisor from the Mathematical Sciences Department.

4. Students interested in obtaining Teacher Certification to teach mathematics, or those that intend to apply to the MAT program at UAA, please see a mathematics faculty advisor and an advisor from the School of Education.

5. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

MINOR, MATHEMATICS

Students majoring in another subject who wish to minor in Mathematics must complete the following requirements. A total of 18 credits is required for the minor, 6 of which must be approved upper-division Mathematics credits.

   - MATH A200 Calculus I 4
   - MATH A201 Calculus II 4
   - MATH A202 Calculus III 4
   - Approved upper-division Mathematics electives 6

FACULTY

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MUSIC

www.uaa.alaska.edu/music/
Arts Building (ARTS), Room 356, (907) 786-1595

The Department of Music is dedicated to providing leadership in the musical arts for the state of Alaska. This is accomplished through teaching, performance, recordings, composition, publication, community outreach, and other creative and service oriented endeavors related to the field of music. At the institutional level, the Department of Music, as a unit of the College of Arts and Sciences, provides a vital liberal arts link for the University of Alaska anchorage.

The Department of Music offers three degree programs: Bachelor of Arts in Music, Bachelor of Music in Performance, and Bachelor of Music with Emphasis in Music Education.

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

The Bachelor of Music in Performance is a professional music degree. Students focus on the development of skills, concepts, and sensitivities essential for success as a performing musician. Students work to achieve a high level of technical competence in their performing area while gaining a broad knowledge of music theory, history and literature.

The Bachelor of Music with Emphasis in Music Education is a four-year program that provides the initial training for a career in teaching music. This professional music degree is followed by a one-year Master of Arts in Teaching (MAT) graduate program which completes the certification requirements for Music K-12. The five-year/two-degree plan offers the student extensive training in music combined with education course work at the graduate level.

Note: Admission to the M.A.T. program is suspended for the academic year 2000-2001, as the School of Education has designed a new post baccalaureate program in secondary education. Please contact the School of Education for additional information.
BACHELOR OF ARTS, MUSIC

BACHELOR OF MUSIC, PERFORMANCE

BACHELOR OF MUSIC, MUSIC, EMPHASIS IN MUSIC EDUCATION

ADMISSION REQUIREMENTS: ALL MAJORS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

ACADEMIC PROGRESS: ALL MAJORS

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. A student may elect to continue study at the 200-level in attempting to pass requirements for admission to upper-division study.

MUS A154, Functional Piano I, and the piano proficiency exam by jury, must be passed prior to completion of 60 credits in the program. Music majors may not enroll in certain upper-division music courses until this jury exam is passed. See music degree listings for specific requirements.

GRADUATION REQUIREMENTS: ALL MAJORS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences requirements for either a BA or BM, Performance degree, listed at the beginning of the CAS section. There are no additional requirements for the BM, Emphasis in Music Education degree.

D. MAJOR REQUIREMENTS: ALL MAJORS

Students seeking a Bachelor of Music in Performance must complete a half recital in their junior year and a full recital in their senior year. Students seeking a Bachelor of Music with Emphasis in Music Education must complete a half recital in their senior year. In these recitals, the student must demonstrate the ability to perform a program of artistic merit satisfactorily in public.

1. Complete the following required courses (29 credits):
   MUS A131 Music Theory I 3
   MUS A132 Music Theory II 3
   MUS A133 Sightsinging and Ear Training I 2
   MUS A134 Sightsinging and Ear Training II 2
   MUS A154 Functional Piano I 1
   MUS A221 History of Music I 3
   MUS A222 History of Music II 3
   MUS A231 Music Theory III 3
   MUS A232 Music Theory IV 3
   MUS A233 Sightsinging and Ear Training III 2
   MUS A234 Sightsinging and Ear Training IV 2
   MUS A280 Basic Conducting 2

2. All music majors enrolled in MUS A161 through A462 (juried Private Music Lessons at all levels) are required to participate in an appropriate ensemble each semester of enrollment. Piano majors enroll in MUS A302, Chamber Music and Accompanying.

3. All music majors enrolled in MUS A161 through A462 (juried Private Music Lessons at all levels) are required to perform in at least one student recital per semester.

4. Jury finals are required at the end of each semester for all music majors in MUS A161 through A462 (juried Private Music Lessons at all levels)

5. Attendance at department approved recitals and concerts is mandatory for all music majors enrolled in MUS A161 through A462 (juried Private Music Lessons at all levels) providing students with a variety of musical experiences which expand the regular curriculum. Failure to meet the minimum attendance requirement will lower by one letter the grade assigned for private lessons.

ADDITIONAL MAJOR REQUIREMENTS:

MUSIC MAJOR, BA

Note: Total credits for graduation may increase unless students select at least 3 credits of upper division courses in fulfillment of their GER and CAS BA Requirements.

1. Complete required music courses:
   MUS A161-A262 Private Lessons
   MUS A301B, A302B, A303B, A307B, or A409B Ensembles 10
   MUS A331 Form and Analysis 3
   MUS A466, A467, A468, A469 or A408B Master Class 4 or 8
   NOTE: four semesters of Master Class are required.

2. Music majors may not enroll in upper-division academic courses (MUS A331, A420-A424, A431, or A432) until they have passed the piano proficiency exam by jury.

3. 67 credits must be completed outside Music.

4. Students must select, or have completed, enough upper division electives to meet UAA’s General University Requirement of 42 upper division credits.

5. A total of 120 credits is required for the degree, of which 42 credits must be upper division.
ADDITIONAL MAJOR REQUIREMENTS:

Performance Major, BM

1. Complete required music courses:
   - MUS A161-462 Private Lessons (on major instrument) 16
   - MUS A301B, A302B, A303B, A307B, or A409B Ensembles*16
   *Note: Pianists and guitarists may count a maximum of 12 credits in either A302B or A409B (whichever applies) towards their degree. The remaining four credits must be selected from a large ensemble (MUS A301B, A303B, or A307B).
   - MUS A466, A467, A468, A469 or A408 Master Class 8 or 16
      Note: eight semesters of Master Class are required.
   - MUS A331 Form and Analysis 3
   - MUS A381 Choral Conducting (2) 2
   - MUS A382 Instrumental Conducting (2)

2. Select 12 upper-division credits from the following:
   - MUS A420 Medieval and Renaissance Music 3
   - MUS A421 Music in the Baroque Period 3
   - MUS A422 Music in the Classical Period 3
   - MUS A423 Music in the Romantic Period 3
   - MUS A424 Music in the 20th Century 3
   - MUS A431 Counterpoint 3
   - MUS A432 Orchestration 3

3. Music majors must have passed the piano proficiency exam by jury before enrolling in private lessons at the MUS A361 level.

4. It is recommended that students select a two semester language sequence to satisfy GER Humanities requirement.

5. A total of 120-128 credits is required for the degree, of which 42 credits must be upper-division.

ADDITIONAL MAJOR REQUIREMENTS:

Music Major, BM Emphasis in Music Education

1. Complete required music courses:
   - MUS A161-A462 Private Lessons (on major instrument) 16
   - MUS A301B, A302B, A303B, A307B, or A409B Ensembles 16
   NOTE: Pianists and Guitarists may count a maximum of 12 credits in either A302B or A409B (whichever applies) towards their degree. The remaining four credits must be selected from a large ensemble MUS A301B, A303B, or A307B.
   - MUS A331 Form and Analysis 3
   - MUS A371-A375 Methods and Techniques 10
   - MUS A381 Choral Conducting (2) 2
   - MUS A382 Instrumental Conducting (2)
   - MUS A420-A424 Music History Elective 3
   - MUS A432 Orchestration 3
   - MUS A466, A467, A468, A469 or A408B Master Class 8

2. It is recommended that students select HIST A341 as a GER Social Science elective.

3. Music majors must have passed the piano proficiency exam by jury before enrolling in private lessons at the MUS A361 level.

4. A total of 124 credits is required for the degree, of which 42 credits must be upper-division.

5. Students wanting certification in Music K-12 must complete the one-year Master of Arts in Teaching (MAT) program. Admission to the MAT program is limited.

6. UAA's graduate application for admission into the MAT must be completed by MARCH 1, for admission to the program the following Fall. This is the only admission period.

7. Students seeking music certification must have completed all requirements for the Bachelor of Music with Emphasis in Music Education degree with a 3.0 GPA or better, for admission to the MAT program.

8. Students must take either the GRE or PPST and the NTE in music for admission to the MAT. This should be done in the Fall semester, the year before you intend to start the MAT program.

9. The School of Education recommends that students who intend to enter the MAT program take ED A626 and ED A627 before entering the MAT to free up the second semester which is student teaching.

10. Students seeking certification should consult the School of Education (SOE) for an application packet and a detailed description of the MAT program.
    Note: Admission to the M.A.T. program is suspended for the academic year 2000-2001, as the School of Education has designed a new post baccalaureate program in secondary education. Please contact the School of Education for additional information.

MINOR, MUSIC

Students majoring in another subject who wish to minor in music must complete the following requirements. A total of 19 credits is required for the minor, 8 of which must be upper-division. To successfully complete the private lesson requirement, students must complete MUS A161 and A162 (juried Private Music Lessons). Two jury examinations are required, one at the end of each semester.

- MUS A111, A131, or A132 6
- MUS A121 or A221 or A222 3
- MUS A301B, A302B, A303B, A307B, or A409B 4 or 6
- MUS A161-A162 2
- MUS A466, A467, A468, A469 or A408B 2 or 4

NOTE: two semesters of Master Class are required.

FACULTY

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Modern sciences do not stand alone. Most draw heavily upon the tenets of at least one other discipline. The Natural Sciences curriculum emphasizes the interrelationships among the sciences and allows students to obtain a strong background in two or more sciences while meeting the requirements of a single degree program. A minimum of 74 science credits is required for this major, as specified below.

The Natural Sciences program is administered by the Department of Biological Sciences. For further information about the Natural Sciences program, contact the Chairperson of the Department of Biological Sciences. Upon acceptance into the major, an advisor will be assigned in Biology and Chemistry or Geology, according to the student’s declared area of emphasis.

**BACHELOR OF SCIENCE, NATURAL SCIENCES**

**ADMISSION REQUIREMENTS**

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

**ACADEMIC PROGRESS**

In order to graduate with a BS in Natural Sciences, all courses covered under “Major Requirements” for a BS in Natural Sciences must be completed with a grade of “C” or better. Students who audit a course intended to meet the Natural Sciences degree requirements or who are unable to earn a grade of “C” or better in the course may repeat the course. All prerequisites for courses used to meet the Natural Sciences degree requirements must be completed with a grade of “C” or better.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

**A. GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

**B. GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements for Baccalaureate Degrees located at the beginning of this chapter.

**C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS**

Complete the College of Arts and Sciences requirements listed at the beginning of the CAS section. It is recommended that MATH A200 or MATH A272, AS A253 or AS A307, and the Computer Programming requirements be completed in the first two years of study.

Note: Major requirements may also be used to satisfy the College of Arts and Sciences Requirements.

**D. MAJOR REQUIREMENTS**

Students must complete the following major requirements:

1. Complete three of the following course sequences (24 credits):
   a. BIOLA105 Fundamentals of Biology I (4)
   b. BIOLA106 Fundamentals of Biology II (4)
   c. CHEM A105/L General Chemistry I (4)
   d. CHEM A106/L General Chemistry II (4)
   e. GEOLA111 Physical Geology (4)
   f. GEOLA112 Historical Geology (4)

Note: It is recommended that three science course sequences be completed in the first two years of study. For students whose emphasis lies in the area of the biological sciences, it is recommended that BIOLA252 also be completed within the first two years of study, as it is a prerequisite for several upper-division biology courses.

2. Complete an additional 50 science credits from at least two science disciplines, of which at least 35-38 credits must be upper-division. UAAscience courses approved for the Natural Sciences degree are listed below. Other courses may be considered by petition. Acceptable credits from other accredited institutions include but are not limited to credits earned in the following disciplines:
   - Applied Statistics
   - Natural Resource Management
   - Computer Sciences
   - Mathematics
   - Environmental Sciences
   - Wildlife Management
   - Engineering
   - Oceanography
   - Health Sciences
   - Psychology

Note: Credit for laboratory, internship, or clinical practicum courses will be awarded on an individual basis with the general rule of one credit for three lab hours applying in most cases.

3. Courses taken to meet the 50 credit Natural Sciences major degree requirement must be chosen with the approval of your advisor.

4. Submit a Program of Study signed by your advisor and approved by the formal advisor to Enrollment Services Office during the semester prior to the semester in which you plan to graduate. All courses listed in the Program of Study must be approved by the formal advisor before submission to the Enrollment Services Office.

5. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

**FACULTY**

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PHILOSOPHY

cwolf.uaa.alaska.edu/~ayphi/
Classroom Building K (K), Room 219, (907) 786-4455

Philosophy acquaints students with the rich, living, intellectual traditions of both the Western and Eastern world. Philosophy courses address perennial questions vital to those traditions, and questions which evoke curiosity and critical inquiry. The basic objective of the Philosophy program is to develop an ability to understand and critically analyze basic concepts of reality, humanity, knowledge, society, and value.

The department serves all students and all disciplines. None of its courses have prerequisites, but most will require intensive and extensive reading and writing assignments. Courses at the 300- and 400-level assume a greater analytic ability; and it would be helpful, but not necessary, for students to have junior standing and to have taken at least one lower-division philosophy course before undertaking one of them.

The department offers a minor which is intended to enrich and complement a student’s major program as well as offering the opportunity to pursue philosophical interests seriously and at length. A philosophy minor is also valuable preparation for many professional and graduate programs.

MINOR, PHILOSOPHY

Students majoring in another subject who wish to minor in Philosophy must complete the following requirements. A total of 18 credits are required for the minor.

1. Complete these required courses (12 credits):
   - PHILA101 Introduction to Logic 3
   - PHILA201 Introduction to Philosophy 3
   - PHILA211 History of Philosophy I 3
   - PHILA212 History of Philosophy II 3

2. Complete a minimum of 6 credits from the list below: 6
   - PHILA301 Ethics (3)
   - PHILA302 Biomedical Ethics (3)
   - PHILA303 Environmental Ethics (3)
   - PHILA309 Philosophy of Mind (3)
   - PHILA310 Philosophy of Love (3)
   - PHILA313B Eastern Philosophy and Religion (3)
   - PHILA314 Western Religion (3)
   - PHILA320 Existentialism (3)
   - PHILA401 Aesthetics (3)
   - PHILA421 Philosophy of the Social Sciences (3)

FACULTY

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POLITICAL SCIENCE

www.uaa.alaska.edu/polsci/
College of Arts & Sciences Building (CAS), Room 356, (907) 786-4897

In its oldest definition, political science was called the master science. More modern definitions are less comprehensive, but of the social sciences, political science has perhaps the least definite boundaries and the widest concerns. Consequently, political science covers many different subjects, uses several diverse methods, and appeals to a variety of students.

Students come to political science because they are interested in politics: some of them with an eye to a political career, some with a scholarly intent, and many wishing to know more about this central, inescapable human concern. The Department of Political Science aims to make all students aware and critical of their first opinions (since human beings are at their most opinionated in politics); to open up the possibilities of politics; to reveal the permanent political problems; to impart an intellectual discipline; and to supply a guide for choice.

Political Science is divided into five areas: Comparative Politics, International Relations, Political Philosophy, American Politics, and Political Behavior. Majors in Political Science are required to take at least one course in each of these areas, to specialize in one of them, and to complete introductory courses in political science.

The Department also offers minors with an emphasis in Political Science and an emphasis in Public Administration. Students selecting the Political Science emphasis take two introductory courses and four additional upper-division Political Science electives. Students selecting the Public Administration emphasis take courses in public administration, public policy, and organization theory.

The Department welcomes all students who want to learn more about politics. It reserves its honors for majors who earn qualifying marks both in a senior seminar and on a comprehensive examination.

HONORS IN POLITICAL SCIENCE

Students majoring in Political Science are eligible to graduate with Departmental Honors if they satisfy all of the following requirements:

1. Meet the requirements for a B.A. degree in Political Science.
2. Maintain a grade point average of 3.50 or above in courses applicable to the degree requirements.
3. Complete PS A492 Senior Seminar in Politics in the final spring term of study with an honor grade (A or B).
4. Receive an honors score (based upon criteria established by the Department) on a comprehensive examination for majors in their final semester.

NOTE: Departmental Honors are awarded by the faculty in Political Science.
BACHELOR OF ARTS, POLITICAL SCIENCE

ADMISSION REQUIREMENTS
Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate Degrees located at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS
Complete the College of Arts and Sciences requirements listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS
Note: Courses which may be used to meet GER and/or CAS BA requirements are designated by a section mark ($) after their titles.

1. Complete the following core courses (18 credits):
   PS A101 Introduction to American Government 3
   PS A102 Introduction to Political Science § 3
   PS/SOC A361 Social Science Research Methods 3
   PS A301 Comparative Political Economy 3
   PS A330 The American Political Tradition 3
   PS A492 Senior Seminar in Politics 3

2. Complete one starred (*) course from each of the five areas below (15 credits):
   Comparative Politics
   *PS A311 Comparative Politics §(3)
   PS A312 Comparative Politics: Case Studies (3)
   AKNS/PS A411 Tribes, Nations, and Peoples (3)
   PS A490 Studies in Politics (1-3)
   International Relations
   *PS A321 International Relations §(3)
   *PS A322 United States Foreign Policy (3)
   PS A324 Model United Nations (1/3)
   PS A424 International Law and Organization (3)
   PS A490 Studies in Politics (1-3)
   Political Philosophy
   *PS A331 Political Philosophy §(3)
   *PS A332 History of Political Philosophy I: Classical §(3)
   *PS A333 History of Political Philosophy II: Modern §(3)
   PS A432 Contemporary Political Theory (3)
   PS A490 Studies in Politics (1-3)

3. Complete 6 credits in additional upper-division Political Science courses from one of the five areas listed above. PS A490 may be repeated with different subtitle.

4. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

MINOR, POLITICAL SCIENCE
The Department of Political Science offers a minor with an emphasis in Political Science or an emphasis in Public Administration. A minor requires 18 credits earned according to the following rules.

Note: Courses required for Political Science minors which may be used to meet General Education Requirements and/or College of Arts and Sciences BA requirements are designated by a pound sign (#) after their titles.

Political Science
Introductory courses (6 credits):
   PS A101 Introduction to American Government # 3
   PS A102 Introduction to Political Science # 3
   Upper-division Political Science courses 12

Public Administration
Introductory courses (6 credits):
   PS A101 Introduction to American Government # 3
   PS A102 Introduction to Political Science # 3
   Additional courses, as follows (12 credits):
   PS A347 Public Administration 3
   PS A348 Public Policy 3
   PS A453 Organization Theory 3
   One additional starred (*) course from one of the areas listed in item 2 above under major requirements 3

Note: Political Science majors who earn a Political Science minor with an emphasis in Public Administration may not count upper-division courses required for the minor (i.e., PS A347, PS A348, or PS A453) toward the major requirements in item 3 above for additional upper-division credits in Political Science.

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Carl E. Shepro, Associate Professor/Chair, AFCES1@uaa.alaska.edu
The baccalaureate program in psychology offers students psychological information (theory and application), and skills for living more effectively, for gaining or advancing in employment, and admission to higher levels of education. Both the Bachelor of Arts and the Bachelor of Science degrees are available.

The psychology major requirements are flexible and are designed to serve a variety of career goals. The student majoring in psychology pursuing 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. All students are encouraged to 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.

**HONORS IN PSYCHOLOGY**

The Department of Psychology recognizes exceptional undergraduate students by awarding them Departmental Honors in Psychology and noting the award on their permanent university transcript. To graduate with Departmental Honors, the student must be a declared Psychology Major and meet the following requirements:

1. Satisfy all requirements for a BA or BS degree in Psychology.
2. Maintain an overall GPA of 3.50.
5. Complete PSYA499 Senior Thesis. The thesis project must be approved in advance by the Undergraduate Studies Committee and carried out by following applicable departmental guidelines.
6. Attain a score at or above the 75th percentile on the Psychology Specialty Test of the Graduate Record Exam. (Allow six weeks for scores to reach the Department).
7. Students intending to graduate with Departmental Honors must notify the Departmental Honors Committee, in writing, on or before the date they file their Application for Graduation with the Enrollment Services Office.

**BACHELOR OF ARTS, PSYCHOLOGY**

**BACHELOR OF SCIENCE, PSYCHOLOGY**

**ADMISSION REQUIREMENTS**

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

A. **GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. **GENERAL EDUCATION REQUIREMENTS**

Complete the General Education Requirements listed at the beginning of this chapter.

C. **COLLEGE OF ARTS AND SCIENCES REQUIREMENTS**

Complete the College of Arts and Sciences requirements for either a BA or BS degree listed at the beginning of the CAS section.

D. **MAJOR REQUIREMENTS (41 CREDITS)**

1. Complete these required core courses (29 credits):
   - PSYA111 General Psychology 3
   - PSYA150 Human Development 3
   - PSYA260 Statistics for Psychology 3
   - PSYA261 Introduction to Experimental Psychology 4
   - PSYA345 Psychology of Abnormal Behavior 3
   - PSYA355 Learning and Cognition 4
   - PSYA368 Personality Theories 3
   - PSYA370 Physiological Psychology 3
   - PSYA375 Psychology of Social Behavior 3
2. Take an additional 12 credits of psychology, 9 of which must be upper-division.
3. All psychology majors must take a standardized test of knowledge of psychology approved by the Psychology Department. There is no minimum score required for graduation.
4. A total of 120 credits is required for the degree of which 42 credits must be upper-division.
RECOMMENDED COURSE SEQUENCE

First Year
PSYA111 General Psychology
PSYA150 Human Development
*UAA/CAS GER course electives

Second Year
PSYA260 Statistics for Psychology
PSYA261 Introduction to Experimental Psychology
Psychology Electives (three lower-division; three upper-division)
*UAA/CAS GER courses electives

Third Year
PSYA368 Personality Theories
PSYA345 Psychology of Abnormal Behavior
PSYA375 Psychology of Social Behavior
*UAA/CAS GER courses electives

Fourth Year
PSYA355 Learning and Cognition
PSYA370 Physiological Psychology
Psychology elective (six upper-division)
*UAA/CAS GER courses electives

If going to Graduate School it is highly recommended that students take the following:
PSYA412 History of Modern Psychology
PSYA420 Research Methods in Experimental Psychology
PSYA425 Clinical Psychology
PSYA427 Field Experience in Psychology
PSYA473 Psychological Testing

*Suggested that the UAA/CAS GER courses need to be completed within the first two years.

MINOR, PSYCHOLOGY

Students majoring in another subject who wish to minor in Psychology must complete a total of 18 credits of Psychology, of which 6 must be upper division.

Requirements include the following:
1. PSYA111 General Psychology
2. Three additional courses required in the core above (see list D.1)
3. Two additional Psychology courses

FACULTY

G. Donald Maloney, Term Assoc Prof/Acting Dept Head, AFGDM@uaa.alaska.edu
Christine Brems, Professor, AFCB@uaa.alaska.edu
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SOCIOLGY

local.uaa.alaska.edu/~aysoc/hmpage.html
College of Arts & Sciences Building (CAS), Room 372, (907) 786-1714

Sociology is the study of social systems—the way they are formed, sustained, and changed. It is concerned with processes which shape individual communication, world views and behavior. The curriculum in sociology is meant to provide the student with the following: a contribution to a liberal arts education, preparation for graduate training in sociology, or preparation for applied sociology in the world of work. Within the major, students can select a specialization in Family and Life Cycles, Community and Change, or General Sociology with a focus on liberal arts. Within the Family and Community specializations, majors must select either an academic or applied focus.

BACHELOR OF ARTS, SOCIOLOGY

BACHELOR OF SCIENCE, SOCIOLOGY

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences requirements for either a BA or BS degree listed at the beginning of the CAS section.

D. MAJOR REQUIREMENTS

1. Complete Sociology core courses (19 credits):
   SOC A101 Introduction to Sociology 3
   SOC A307 Demography 3
   SOC/PS A361 Social Science Research Methods 3
   SOC A402 Theories of Sociology 3
   SOC/PSYA453 Application of Statistics to
   the Social Sciences 4
   SOC A488 Capstone Seminar 3

University of Alaska Anchorage 2000-2001 Course Catalog
www.uaa.alaska.edu
2. Complete one of the following options:
   
   **Note:** Courses may not be applied to more than one option.

**Option I**

**Family and Life Cycles (18 credits):**

For majors specializing in small groups and family systems:

a. Complete two general background courses (6 credits):
   
   SOC A275 Social Psychology (3)
   SOC A363 Social Stratification (3)
   SOC A405 Social Change (3)

b. Complete two core area courses (6 credits):
   
   SOC A242 An Introduction to Marriage, Family and Intimate Relationships (3)
   or
   SOC A342 Sexual, Marital and Family Lifestyles (3)
   SOC A246 Adolescence (3)
   SOC A310 Sociology of Aging (3)
   SOC A377 Men, Women and Change (3)
   SOC A452 Violence in Intimate Relationships (3)

c. Select either the Academic Emphasis or the Applied Emphasis (6 credits):
   
   A. For the Academic Emphasis, complete two additional courses from item “b” core area courses (above).
   B. For the Applied Emphasis, complete two courses from the following application courses:
      HUMS/SWK A106 Introduction to Social Welfare (3)
      SOC A142 Sociology of Sexuality (3)
      SOC/JUST A454 Evaluation Research and Change (3)
      SOC A487 Sociology Practicum (3)
      (May be repeated)

**Option II**

**Community and Change (18 credits):**

For majors specializing in rural community and urban systems:

a. Complete two general background courses (6 credits):
   
   SOC A202 The Social Organization of Society (3)
   SOC A343 Sociology of Deviant Behavior (3)
   SOC A363 Social Stratification (3)
   SOC/HS A370 Medical Sociology (3)
   SOC A404 Environmental Sociology (3)
   SOC A405 Social Change (3)

b. Complete two core area courses (6 credits):
   
   SOC A222 Small and Rural Communities (3)
   SOC A309 Urban Sociology (3)
   SOC A373 Strategies of Community Change (3)
   SOC/SWK A407 Formal Organizations (3)
   SOC A408 American Minority Groups (3)

c. Select either the Academic Emphasis or the Applied Emphasis (6 credits):
   
   A. For the Academic Emphasis, complete two additional courses in item 2 core area courses (above).
   B. For the Applied Emphasis, complete required application courses:
      SOC/JUST A454 Evaluation Research and Change (3)
      SOC A487 Sociology Practicum (3)
      (May be repeated)

3. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

**MINOR, SOCIOLOGY**

Students majoring in another subject who wish to minor in Sociology must complete the following requirements. A total of 21 credits is required for the minor.

- SOC A101 Introduction to Sociology 3
- SOC/PS A361 Social Science Research Methods 3
- SOC A402 Theories of Sociology 3
- Upper-division Sociology electives 6
- Sociology electives, any level 6

**FACULTY**

- Nancy Andes, Professor/Chair, AFNA@uaa.alaska.edu
- Sharon Araji, Professor, AFSKA1@uaa.alaska.edu
- Robert Kettlitz, Term Assistant Professor, AFREK@uaa.alaska.edu
- Mike Mtika, Assistant Professor, AFMMM@uaa.alaska.edu
- Will Miles, Assistant Professor, PFWMM@uaa.alaska.edu
- Michael Pajot, Professor, AFMEP@uaa.alaska.edu
- Karl Pfeiffer, Assistant Professor, AFKTP@uaa.alaska.edu
- Laurence Weiss, Professor, AFLDW@uaa.alaska.edu
- Melissa Toffolon-Weiss, Term Asst Prof, AFMMT@uaa.alaska.edu

**College of Arts and Sciences**

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www ua a.alaska._edu
Theatre is the art of giving life in performance to dramatic literature. The Department of Theatre offers a well-rounded liberal arts approach in its curriculum, with courses covering all the basic areas of theatrical endeavor, including acting, directing, stagecraft, scene design, lighting, costuming, makeup, dramatic literature, theatre history, dramatic theory and criticism, and playwriting. Production is at the very center of our award-winning theatre program. Each season UAA Theatre produces four plays on its convertible thrust Main Stage, and as many as twenty one act or full-length plays in the student-directed Second Stage program. In most years one of our productions is chosen to tour rural Alaska. The plays are cast at open auditions and more than 100 majors, non-majors, and members of the community are involved in our season each year.

All Theatre majors are required to participate in Main Stage productions and/or related departmental activities.

Bachelor of Arts, Theatre

Admission Requirements
Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

Graduation Requirements
Students must complete the following graduation requirements:

A. General University Requirements
Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. General Education Requirements
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. College of Arts and Sciences Requirements
Complete the College of Arts and Sciences requirements listed at the beginning of the CAS section.

D. Major Requirements
1. Complete the following required core courses (33 credits):
   - THR A111 Introduction to the Theatre 3
   - THR A121 Acting I 3
   - THR A131 Theatrical Production Techniques 3
   - THR A141 Stagecraft I 3
   - THR A221 Acting II: Movement for the Actor 3
   - THR A243 Scene Design 3
   - THR A257 Costume Design and Construction I 3
   - THR A311 Representative Plays I (3) 3
     or
   - THR A312 Representative Plays II (3)
   - THR A331 Directing I 3
   - THR A411 History of the Theatre I 3
   - THR A412 History of the Theatre II 3

2. Choose two of the following Performance Area courses (6 credits): 6
   - THR A315 Playwriting Workshop (3)
   - THR A321 Acting III Scene Study (3)
   - THR A324 Voice for the Actor (3)
   - THR A325 Theatre Speech (3)
   - THR A328 Acting Shakespeare (3)
   - THR A329 Combat for the Stage I (3)
   - THR A413 Dramatic Theory and Criticism (3)

3. Choose one of the following Design Area courses (3 credits): 3
   - THR A341 Stagecraft II (3)
   - THR A343 Scenic Design II (3)
   - THR A347 Lighting Design (3)
   - THR A357 Costume Design and Construction II (3)

4. Complete the following Technical Area courses (4 credits): 4
   - THR A295 Theatre Practicum: Technical 2
   - THR A495 Advanced Practicum: Technical 2

5. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

Minor, Theatre
Students majoring in another subject who wish to minor in Theatre must complete the following requirements. A total of 18 credits is required for the minor.

   - THR A111 Introduction to the Theatre 3
   - THR A121 Acting I 3
   - THR A141 Stagecraft I 3
   - THR A311 Representative Plays I (3) 3
     or
   - THR A312 Representative Plays II (3)
   - THR A411 History of the Theatre I (3) 3
     or
   - THR A412 History of the Theatre II (3)
   - Theatre electives 3

Faculty
Fran Lautenberger, Professor/Chair, AFFEL1@uaa.alaska.edu
Frank Bebey, Assoc Prof, Scenographer
Jill Crosby, Assoc Prof, Coordinator
David Edgecombe, Associate Professor, AFDPE@uaa.alaska.edu
Tom Skore, Associate Professor
The interdisciplinary Women's Studies minor offers students the opportunity to select courses from a variety of academic disciplines. Women's Studies courses are planned to foster open, vigorous inquiry about women, to challenge curricula in which women are absent or peripheral, to question cultural assumptions in light of new information, and to create a supportive environment for those interested in studying women.

**MINOR, WOMEN’S STUDIES**

Students majoring in another subject who wish to minor in Women’s Studies must complete the following requirements. A total of 18 credits are required for the minor, of which 9 must be upper-division.

1. Complete these required courses (9 credits):
   - WS A200 Introduction to Women’s Studies 3
   - WS A400 Feminist Theory 3
   - WS A401 Seminar in Women’s Studies (1-3)* 3

2. Complete 9 credits of pre-approved electives. You must select electives from at least two different disciplines (as defined by prefix). At least one elective must be upper-division (300-level or higher). Relevant courses not listed as approved electives may apply with the approval of Women’s Studies Co-directors.

- ANTH A270 Cross-Cultural Perspectives on Women (3)
- CWLAA260G Women’s Writing Workshop (3)
- CWLAA461 Writing and Gender (3)
- ENGLA403 Topics in Autobiography (3)**
- ENGLA404 Topics in Women’s Literature (3)
- HIST A381 American Women’s History to 1870 (3)
- HIST A382 American Women’s History Since 1870 (3)
- HIST/RUSS A384 Russian Women (3)
- HUMS A150 Marriage, Divorce and Intimate Relationships in the 90’s (3)
- HUMS A350 Men and Masculinity (3)
- PSYA313 Psychology of Women (3)
- SOC A242 An Introduction to Marriage, Family and Intimate Relationships (3)
- SOC A342 Sexual, Marital and Family Lifestyles (3)
- SOC A377 Men, Women and Change (3)
- SOC A352 Women and Social Action (3)
- SOC A452 Violence in Intimate Relationships (3)
- WS A401 Seminar in Women’s Studies (1-3)*

*WS A401 must be taken as a 3 credit course to fulfill the core. It may be taken a second time with a change of subtitle as an elective.

**Counts for Women’s Studies Minor only when focus is on Women’s Autobiography. Taught every other year with this focus.

*Note: Other courses may apply to the minor with approval of Women’s Studies Co-Directors.*

**FACULTY**

- Genie Babb, Associate Professor/Co-Chair, AFGNB@uaa.alaska.edu
- Elizabeth Dennison, Associate Prof/Co-Chair, AFEJD@uaa.alaska.edu
The College of Business and Public Policy has five departments: (1) Accounting, (2) Business Administration, (3) Computer Information and Office Systems (4) Economics, and (5) Public Administration. The Associate of Applied Science, Bachelor of Business Administration, Bachelor of Arts in Economics, Master of Business Administration and Master of Public Administration are offered by the College. The College operates the Small Business Development Center, Center for Economic Development, Center for Economic Education, and Institute of Social and Economic Research. The Dean’s Executive Advisory Council includes over 10 top executives representing the leading employers in the state. Many local firms offer scholarships, internships, and job opportunities for College of Business and Public Policy students. The College has over forty full-time faculty with graduate degrees from many of the best universities in the country and extensive business experience. The College maintains a small school atmosphere with high academic standards. The Baccalaureate and Master of Business Administration degree programs are accredited by the International Association in Management Education (AACSB).

MISSION

The College of Business and Public Policy embraces the University’s mission to serve Alaska and global communities (with specific focus on the North Pacific Rim) by providing community college business education; baccalaureate and graduate business education; and research/outreach services. The College maintains an environment that values, promotes, develops, and fosters equal treatment of cultural and ethnic groups. Students are trained to meet the ethical, environmental, and moral challenges facing future business leaders. The programs are designed to advance critical thinking, behavioral and communication skills. The faculty strives to stay abreast of advances in modern information technology for educating business students and we are committed to maintaining state-of-the-art computer laboratory facilities. We serve a student body that is diversified in terms of social and educational background, business experience, learning motives, and career ambitions. The College seeks to meet the needs of our constituents by staying current with emerging trends, by training and educating a competent work force in management and business related disciplines, and by providing pedagogical, basic and applied research, training and technical assistance.

The College of Business and Public Policy offers degree planning sheets that provide a suggested sequence for taking courses within the degree(s), and are not intended to take the place of the degree requirements listed in this catalog.

ACCOUNTING

www.cbpp.alaska.edu/DEGREES/acct.html
Business Education Building (BEB), Room 309, (907) 786-4100

The Department of Accounting offers two programs: an Associate of Applied Science (AAS) degree with a major in Accounting and the Bachelor of Business Administration (BBA) degree with a major in Accounting. The programs are designed to prepare students for a career in business, government, or other types of organizations. BBA graduates will generally pursue professional accounting careers while AAS graduates will be qualified for vocationally oriented accounting positions. The Department of Accounting is also committed to enhancing the lifelong learning opportunities for responsible citizenship and personal satisfaction where accounting and business dimensions are critical ingredients. The AAS degree in Accounting is available at UAA, Kenai Peninsula College, and Matanuska-Susitna College campuses.

ASSOCIATE OF APPLIED SCIENCE, ACCOUNTING

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.

2. Complete the Associate of Applied Science Requirements (15 credits) located at the beginning of this chapter. To provide maximum transferability to the BBA in Accounting, it is recommended that students consider the Bachelor of Business Administration general education and business core requirements when selecting courses to fulfill the Associate of Applied Science general requirements and business electives.

MAJOR REQUIREMENTS

1. Complete the following required courses (33 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT A101</td>
<td>Principles of Financial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT A102</td>
<td>Principles of Financial Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT A202*</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT A210</td>
<td>Income Tax Preparation</td>
<td>3</td>
</tr>
<tr>
<td>ACCT A222</td>
<td>Introduction to Computers and Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT A225</td>
<td>Accounting for Payroll, Receivables and Payables</td>
<td>3</td>
</tr>
<tr>
<td>ACCT A230</td>
<td>Financial Statement Preparation and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>BA A151</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BA/JUST A241</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>CIOS A110</td>
<td>Computer Concepts in Business</td>
<td>3</td>
</tr>
<tr>
<td>ECON A201</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

*Note: Student must pass MATH A105 (“C” or better) or successfully complete an equivalent Math Placement Test.

2. Complete 12 credits of electives. Students may choose any course at the 100-level or above in ACCT, BA, CIOS, or ECON, but may not use more than 6 credits from one discipline. 12

3. A total of 60 credits is required for the degree.
RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year
Fall Semester (15 credits):
- ACCT A101 Principles of Financial Accounting I (3)
- BAA151 Introduction to Business (3)
- ENGLA111 Methods of Written Communication (3)
- COMM A111, A235, A237 or A241 (3)
- General Requirement* (3)

Spring Semester (15 credits):
- ACCT A102 Principles of Financial Accounting II (3)
- BAA241 Business Law I (3)
- CIOS A110 Computer Concepts in Business (3)
- ENGLA211, A212, A213 (ENGL212 recommended) or CIOS A262 Written Business Communications (3)
- General Requirement* (3)

Second Year
Fall Semester (15 credits):
- ACCT A202 Principles of Managerial Accounting (3)
- ACCT A222 Introduction to Computers and Accounting (3)
- ACCT A225 Accounting for Payroll, Receivables and Payables (3)
- Business elective** (3)
- Business elective** (3)

Spring Semester (15 credits):
- ACCT A210 Income Tax Preparation (3)
- ACCT A230 Financial Statement Preparation and Presentation (3)
- ECON A201 Principles of Macroeconomics (3)
- Business elective** (3)
- Business elective** (3)

* See General Requirement list for approved course classifications
** 100-level or higher courses in ACCT, BA, CIOS or ECON. No more than 6 credits from one discipline.

BACHELOR OF BUSINESS ADMINISTRATION,
ACCOUNTING

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

ADMISSION REQUIREMENTS TO UPPER-DIVISION COURSES

1. Completion of at least 39-40 credits with a cumulative GPA of 2.25 or higher.
2. Completion of each of the following courses with a grade of “C” or better (30-31 credits):
   - ACCT A201 and A202 (6)
   - BAA273 (3)
   - CIOS A110 (3)
   - COMM A111, A235, A237, A241 (3)
   - ECON A201 and A202 (6)
   - ENGLA111 and ENGLA211, A212, or A213 (6)
   - MATH A270 or A107 (3-4)
3. Completion of at least 9 credits that satisfy UAAGeneral Education Requirements in the following areas:
   - Fine Arts
   - Humanities
   - Natural Sciences

ADMISSION TO UPPER-DIVISION STATUS

BBA students in Accounting, Business Administration, and Computer Information and Office Systems who do not meet the above standards may not take upper-division courses in ACCT, BA, or CIOS. Other students must meet course prerequisites.

CONDITIONAL ADMISSION TO UPPER-DIVISION STATUS

A student classified as being conditionally admitted to upper-division status may take upper-division ACCT, BA and CIOS courses for one semester only, while completing lower-division deficiencies.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the baccalaureate General University Requirements listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. COLLEGE OF BUSINESS AND PUBLIC POLICY REQUIREMENTS FOR ACCOUNTING MAJORS

A minimum of 60 credits for this degree must be from outside the business area. All ACCT, BA, and CIOS courses are considered within the business area. Six (6) credits from Applied Statistics (AS), BAA273 or BAA375 and 9 ECON credits may be counted as being outside the business area; any additional credits in these areas will be counted as being within the business area. At least 50% of the business credits required for the BBA degree must be earned at the University of Alaska Anchorage.

Complete the BBAcore requirements (24-26 credits):

1. The following courses must be completed with a “C” or better:
   - ACCT A201 Principles of Financial Accounting (3)
   - ACCT A202 Principles of Managerial Accounting (3)
   - BAA273 Introduction to Statistics for Business and Economics (3)
   - CIOS A110 Computer Concepts in Business (3)
   - ECON A201 Principles of Macroeconomics (3)
   - ECON A202 Principles of Microeconomics (3)
   - MATH A270 Applied Finite Mathematics for the Managerial Sciences (3) or MATH A107 College Algebra (4)
   - MATH A272 Calculus for Managerial Sciences (3) or MATH A200 Calculus I (4)

Note: Students who plan to attend graduate school are encouraged to take MATH A107 (College Algebra) and MATH A200-A201-A202 (Calculus) instead of MATH A270 and MATH A272.
2. Complete these upper-division core courses with a “C” or better (21 credits):  
   - ACCT A316 Accounting Information Systems 3  
   - BAA300 Organizational Theory and Behavior 3  
   - BAA325 Corporate Finance 3  
   - BAA343 Principles of Marketing 3  
   - BAA377 Operations Management 3  
   - CIOS A380 Managerial Presentations 3  
   - BAA488 The Environment of Business 3

D. MAJOR REQUIREMENTS

1. Complete the following requirements with a “C” or better (27 credits):  
   - ACCT A301 Intermediate Accounting I 3  
   - ACCT A302 Intermediate Accounting II 3  
   - ACCT A310 Income Tax 3  
   - ACCT A342 Managerial Cost Accounting 3  
   - ACCT A452 Auditing 3  
   - JUST/BAA241 Business Law I 3  
   - Accounting electives* 6  
   - Upper-division ECON elective or BAA375 3

   *Required Accounting electives (6 credits) must be selected from the following courses and passed with a “C” or better:  
   - ACCT A401 Advanced Accounting I (3)  
   - ACCT A410 Advanced Income Tax (3)  
   - ACCT A411 Estate and Trust Tax Law (3)  
   - ACCT A430 Governmental and Non-Profit Accounting (3)  
   - ACCT A453 Internal Auditing (3)

2. A total of 120 credits is required for the degree, of which 45 credits must be upper-division.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year

Fall Semester (15 credits):  
   - ENGLA111 Methods of Written Communication 3  
   - COMM A111, A235, A237 or A241 3  
   - Humanities GER 3  
   - Natural Science GER 3  
   - Elective* 3  

Spring Semester (16-17 credits):  
   - CIOS A110 Computer Concepts in Business 3  
   - ENGLA211, A212 or A213 (ENGLA212 recommended) 3  
   - MATH A270 or A200 3-4  
   - Arts GER 3  
   - Natural Science with lab GER 4

Second Year

Fall Semester (15-16 credits):  
   - ACCT A201 Principles of Financial Accounting 3  
   - BAA241 Business Law I 3  
   - ECON A201 Principles of Macroeconomics 3  
   - MATH A272 or A200 3-4  
   - Social Science GER 3  

Spring Semester (15 credits):  
   - ACCT A202 Principles of Managerial Accounting 3  
   - BAA273 Introduction to Statistics for Business and Economics 3  
   - ECON A202 Principles of Microeconomics 3  
   - Social Science GER 3  
   - Humanities GER 3

Third Year

Fall Semester (15 credits):  
   - ACCT A301 Intermediate Accounting I 3  
   - ACCT A342 Managerial Cost Accounting 3  
   - BAA300 Organizational Theory and Behavior 3  
   - CIOS A380 Managerial Presentations 3  
   - Elective* 3  

Spring Semester (15 credits):  
   - ACCT A302 Intermediate Accounting II 3  
   - ACCT A310 Income Tax 3  
   - BAA325 Corporate Finance 3  
   - BAA343 Principles of Marketing 3  
   - Elective* 3

Fourth Year

Fall Semester (15 credits):  
   - ACCT A316 Accounting Information Systems 3  
   - BAA377 Operations Management 3  
   - BAA488 The Environment of Business 3  
   - ACCT elective** 3  
   - Elective* 3  

Spring Semester (12-14 credits):  
   - ACCT A452 Auditing 3  
   - Upper-division ECON elective or BAA375 3  
   - ACCT elective** 3  
   - Elective* 3  
   - Elective* 0-2

   * 100-level or higher. 9-11 credit hours must be in courses other than ACCT, BA, CIOS or ECON.  
   ** See approved list of upper-division Accounting electives in this section.

MINOR, ACCOUNTING*

Students who wish to minor in Accounting, must complete the following requirements. A total of 18 credits is required for the minor.  
   - ACCT A201 Principles of Financial Accounting 3  
   - ACCT A202 Principles of Managerial Accounting 3  
   - Upper-division Accounting electives 12

   * Not available to BBA Accounting majors.

FACULTY

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The Department of Business Administration offers a Certificate in Small Business Management at the Kenai campus, an AAS degree in General Business at the Kodiak campus, an AAS degree in Small Business Administration at the Anchorage, Kenai, and Mat-Su campuses as well as a BBA degree in Economics, Finance, Global Logistics Management, Management, and Marketing on the Anchorage campus. A Business Administration minor is also available on the Anchorage campus. These are professional programs designed to meet the challenges of a dynamic and changing business environment. Graduates in business find job opportunities in Alaska, throughout the United States and in many foreign countries.

**Certificate Small Business Management**

This Small Business Management certificate is offered only through Kenai Peninsula College.

The one-year Small Business Management certificate enables the student to explore business career options and gives entry-level job skills and/or upgrades skills for employment advancement. It also serves as the first year of training towards the two-year Associate of Applied Science in Small Business Administration.

1. Complete the following communications requirements (6 credits):
   - ENGL A111 Methods of Written Communication 3
   - Select 3 credits from the following:
     - ENGL A211 Academic Writing About Literature (3)
     - ENGL A212 Technical Writing (3)
     - ENGL A213 Writing in the Social and Natural Sciences (3)
   - CIOS A262 Written Business Communications (3)

2. Complete the following requirements:
   - A. Select 3 credits from the following:
     - ACCT A101* Principles of Financial Accounting I (3)
     - ACCT A201 Principles of Financial Accounting (3)
     - ACCT A120 Bookkeeping for Business I (3)
   - B. Select 3 credits from the following:
     - ACCT A102* Principles of Financial Accounting II (3)
     - ACCT A202 Principles of Managerial Accounting (3)
     - ACCT A222 Introduction to Computers and Accounting (3)

*Students taking ACCT A101 and ACCT A102 cannot use ACCT A201 for credit for the Small Business Management certificate.

3. Complete the following:
   - BA A166 Small Business Management 3
   - BA A231 Fundamentals of Supervision 3

4. Select 6 credits from the following:
   - ACCT Accounting
   - BA Business Administration
   - CIOS Computer Information and Office Systems
   - ECON Economics

5. With advisor’s approval, complete 3-5 elective credits.
   - MATH A102 Business Math, or higher is recommended. 3-5

6. A total of 27-29 credits is required for the certificate.

**Associate of Applied Science, General Business**

This degree is offered only through Kodiak College.

**Admission Requirements**

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

**General University Requirements**

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

**Major Requirements**

1. Complete the following required courses (24 credits):
   - ACCT A101 Principles of Financial Accounting I 3
   - ACCT A102 Principles of Financial Accounting II 3
   - BA A151 Introduction to Business 3
   - BA/JUST A241 Business Law I 3
   - BA/JUST A242 Business Law II 3
   - CIOS A105 Introduction to PC Computers and Applications 3
   - ECON A201 Principles of Macroeconomics 3
   - ECON A202 Principles of Microeconomics 3

2. Complete an additional 12 credits from any 100- or 200-level ACCT, BA, CS, ECON, or CIOS course. 12

3. Complete an additional 9 elective credits. 9

4. A total of 60 credits is required for the degree.

**Associate of Applied Science, Small Business Administration**

**Admission Requirements**

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

**General University Requirements**

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter. To provide maximum transferability, it is recommended that students consider the Bachelor of Business Administration general education and business core requirements when selecting courses to fulfill the Associate of Applied Science general requirements.
MAJOR REQUIREMENTS

1. Complete the required support courses (12-16 credits):
   - ACCT A101 Principles of Financial Accounting I (3)
   - ACCT A102 Principles of Financial Accounting II (3)
   - ACCT A201 Principles of Financial Accounting (3)
   - ACCT A202 Principles of Managerial Accounting (3)
   - CIOS A110 Computer Concepts in Business (3)
   - MATH A105 Intermediate Algebra (3)
   - MATH A207 College Algebra (4)
   - MATH A270 Applied Finite Mathematics for the Managerial Sciences (3)

   \*Note: MATH A105 will not satisfy the Quantitative Skills General Education Requirement for the baccalaureate degree.

2. Complete the required BACore courses (21 credits):
   - BAA151 Introduction to Business (3)
   - BAA166 Small Business Management (3)
   - BAA231 Fundamentals of Supervision (3)
   - BAA233 Fundamentals of Financial Management (3)
   - BAA/JUST A241 Business Law I (3)
   - BAA260 Marketing Practices (3)
   - BAA264 Personal Selling (3)

3. Complete 8-12 credits of electives from the following: 8-12
   - BA A131 Personal Finance (3)
   - BA A232 Fundamentals of Organizational Management (3)
   - BAA/JUST A242 Business Law II (3)
   - BA A261 Advertising and Sales Promotion (3)
   - BA A263 Practices in Consumer Behavior (3)

4. A total of 60 credits is required for the degree.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is strongly that recommended students follow this course sequence:

First Year
Fall Semester (15 credits):
   - BAA151 Introduction to Business (3)
   - BAA264 Salesmanship (3)
   - ECON A201 Principles of Macroeconomics (3)
   - ENGLA11 Methods of Written Communication (3)
   - COMM A111, A235, A237 or A241 (3)

Spring Semester (15 credits):
   - ACCT A201 Principles of Financial Accounting (3)
   - BAA166 Small Business Management (3)
   - ECON A202 Principles of Microeconomics (3)
   - ENGLA211, A212, A213 (ENGLA212 recommended) or
   - CIOS A262 Written Business Communications (3)
   - Program Elective* (3)

Second Year
Fall Semester (15-16 credits):
   - ACCT A202 Principles of Managerial Accounting (3)
   - BAA231 Fundamentals of Supervision (3)
   - BAA241 Business Law I (3)
   - CIOS A110 Computer Concepts in Business (3)
   - Program Elective* (3)

Spring Semester (15 credits):
   - BAA233 Fundamentals of Financial Management (3)
   - BAA260 Marketing Practices (3)
   - MATH A270, A107 or A105** (3-4)
   - Program Elective* (3)
   - Program Elective* (3)

* See catalog for a list of approved program electives.
** Option to take MATH A105 applies to AAS degrees only.

BACHELOR OF BUSINESS ADMINISTRATION

Major areas: Economics, Finance, Global Logistics Management, Management, Marketing

The Bachelor of Business Administration (BBA) is a professional degree offered through the College of Business and Public Policy. 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. Concepts that are relevant to both small and large firms and both the public and private sectors are emphasized.

The five majors — Economics, Finance, Global Logistics Management, Management, and Marketing — are designed to prepare students to pursue careers in the private and public sectors. Local, state, national, and international firms, and not-for-profit organizations provide a ready market for graduates in each of these five major areas of concentration.

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements located at the beginning of this chapter.

ADMISSION REQUIREMENTS TO UPPER-DIVISION COURSES

1. Completion of at least 39-40 credits with a cumulative GPA of 2.25 or higher.

2. Completion of each of the following courses with a grade of “C” or better (30-31 credits):
   - ACCT A201 and A202 (6)
   - BAA273 (3)
   - CIOS A110 (3)
   - ECON A201 and A202 (6)
   - ENGLA11 and ENGL A211, A212, or A213 (6)
   - MATH A270 or A107 (3-4)
   - COMM A111, A235, A237, A241 (3)
   - For Finance, Global Logistics Management, Marketing and Management majors:
     - PSYA111 (3)
     - SOC A101 (3)

3. Completion of at least 9 credits that satisfy UAA General Education Requirements in the following areas:
   - Fine Arts
   - Humanities
   - Natural Sciences
Admission to Upper-division Status:
BBA students in Accounting, Business Administration, and Computer Information and Office Systems who do not meet the above standards may not take upper-division courses in ACCT, BA, or CIOS. Other students must meet course prerequisites.

Conditional Admission to Upper-division Status:
A student classified as being conditionally admitted to upper-division status may take upper-division ACCT, BA, and CIOS courses for one semester only, while completing lower-division requirements.

Graduation Requirements
Students must complete the following graduation requirements:

A. General University Requirements
Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. General Education Requirements
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. College of Business and Public Policy Requirements

Economics, Finance, Global Logistics Management, Management and Marketing Majors
A minimum of 60 credits for these degrees must be from outside the business area. All ACCT, BA, and CIOS courses are considered within the business area. 6 credits from Applied Statistics (AS), BA A273 or BAA375 and 9 ECON credits may be counted as being outside the business area; any additional credits in these areas will be counted as being within the business area. At least 50% of the business credits required for the BBA degree must be earned at the University of Alaska Anchorage.

1. Complete the Business core requirements (33-35 credits). The following courses must be completed with a “C” or better.
   - ACCT A201 Principles of Financial Accounting 3
   - ACCT A202 Principles of Managerial Accounting 3
   - BA/JUST A241 Business Law I 3
   - BAA273 Introduction to Statistics for Business and Economics 3
   - CIOS A110 Computer Concepts in Business 3
   - ECON A201 Principles of Macroeconomics 3
   - ECON A202 Principles of Microeconomics 3
   - MATH A270 Applied Finite Mathematics for the Managerial Sciences (3) 3-4
   - or MATH A107 College Algebra (4)
   - or MATH A200 Calculus I (4)
   - PSYA A111 General Psychology 3
   - SOC A101 Introduction to Sociology 3

Note: Students who plan to attend graduate school are encouraged to take MATH A107 (College Algebra) and MATH A200-201-202 (Calculus) instead of MATH A270 and MATH A272.

2. Complete these upper-division core courses (21 credits). The following courses must be completed with a “C” or better prior to graduating:
   - BA A300 Organizational Theory and Behavior 3
   - BA A325 Corporate Finance 3
   - BA A343 Principles of Marketing 3
   - BA A377 Operations Management 3
   - BA A488 The Environment of Business 3
   - CIOS A376 Management Information Systems 3
   - CIOS A380 Managerial Presentations 3

D. Major Requirements

Economics Major
1. Complete the following requirements (24 credits). The following courses must be completed with a “C” or better prior to graduating:
   - ECON A321 Intermediate Microeconomics 3
   - ECON A324 Intermediate Macroeconomics 3
   - ECON A350 Money and Banking 3
   - ECON A429 Business Forecasting 3
   - Upper-division Economics electives* 12

*Note: No more than a total of 6 credits earned in an independent study, or ECON A454, Economics Internship, may be used to satisfy requirements for the major (6 credits of independent study or 3 credits of independent study and 3 credits of ECON A454).

2. A total of 121 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

Recommended Course Sequence
To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year
Fall Semester (15 credits):
   - ENGL A111 Methods of Written Communication 3
   - COMM A111, A235, A237 or A241 3
   - Humanities GER 3
   - Natural Science GER 3
   - Elective* 3

Spring Semester (16-17 credits):
   - CIOS A110 Computer Concepts in Business 3
   - ENGL A211, 212 or 213 (ENGL A212 recommended) 3
   - MATH 272 or 200 3-4
   - Humanities GER 3
   - Natural Science with lab GER 4

Second Year
Fall Semester (15-16 credits):
   - ACCT A201 Principles of Financial Accounting 3
   - BAA241 Business Law I 3
   - ECON A201 Principles of Microeconomics 3
   - MATH 272 or 200 3-4
   - PSYA A111 Introduction to Psychology 3

Spring Semester (15 credits):
   - ACCT A202 Principles of Managerial Accounting 3
   - BAA273 Introduction to Statistics for Business and Economics 3
   - ECON A202 Principles of Microeconomics 3
   - Fine Arts GER 3
   - SOC A101 Introduction to Sociology 3
**Finance Major**

1. Complete the following requirements (15 credits). The following courses must be completed with a “C” or better prior to graduating:
   - BAA375 Statistics for Business and Economics (3) 3
   - or
   - ECON A429 Business Forecasting (3) 3
   - BAA425 Advanced Corporate Financial Problems 3
   - BAA426 Financial Institutions 3
   - BAA427 International Finance 3
   - BAA450 Investment Management 3

2. The following courses must be completed with a “C” or better prior to graduating:
   - Upper-division Business electives 12
   (At least 9 credits, any combination, must be in ECON, ACCT, or Real Estate.)

3. A total of 121 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

**Note:** See degree check sheets available in the College of Business and Public Policy.
Global Logistics Management Major

1. Complete the following requirements with a grade of “C” or better (12 credits):
   - BAA378 Management of Global Logistics Supply Chains 3
   - BAA379 Transportation Management 3
   - BAA415 Purchasing and Materials Management 3
   - BAA416 International Logistics and Transportation Management 3

2. Complete BAA495 Business Administration Internship* 0/3
   *The internship is intended to be in logistics. This requirement may be waived if the major advisor determines that the student already has significant logistics work experience. If waived, student may need to select 3 additional upper division credits to total 48.

3. Complete 12 credits of upper-division electives approved by the student’s advisor with a grade of “C” or better.

   These may include, but are not limited to the following:
   - ACCT A342 Managerial Cost Accounting (3)
   - BAA350 Marketing Research (3)
   - BAA375 Statistics for Business and Economics (3)
   - BAA447 International Marketing (3)
   - BAA490 International Comparative Management (3)
   - CIOS A310 Analysis of Business Systems (3)
   - CIOS A330 Database Management Systems (3)
   - CIOS A410 Project Management (3)
   - CIOS A489 Systems Design and Implementation (3)
   - ECON A429 Business Forecasting (3)
   - ECON A463 International Economics (3)
   - AT A332 Transport Aircraft Systems (3)
   - AT A420 Air Transportation System (3)

4. A total of 120 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

* See degree check sheets available in the College of Business and Public Policy.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year
Fall Semester (15 credits):
- ENGLA111 Methods of Written Communication 3
- COMM A111, A235, A237 or A241 3
- Humanities GER 3
- Natural Science GER 3
- Elective* 3

Spring Semester (16-17 credits):
- CIOS A110 Computer Concepts in Business 3
- ENGLA211, A212 or A213 (ENGLA212 recommended) 3
- MATH A270 or A200 3-4
- Humanities GER 3
- Natural Science with lab GER 4

Second Year
Fall Semester (15-16 credits):
- ACCT A201 Principles of Financial Accounting 3
- BAA241 Business Law I 3
- ECON A201 Principles of Macroeconomics 3
- MATH A272 or A200 3-4
- PSYA111 General Psychology 3

Spring Semester (15 credits):
- ACCT A202 Principles of Managerial Accounting 3
- BAA273 Introduction to Statistics 3
- ECON A202 Principles of Microeconomics 3
- Fine Arts GER 3
- SOC A101 Introduction to Sociology 3

Third Year
Fall Semester (15 credits):
- BAA300 Organizational Theory and Behavior 3
- BAA325 Corporate Finance 3
- BAA343 Principles of Marketing 3
- BAA377 Operations Management 3
- BAA378 Global Logistics Supply Chains 3

Spring Semester (15 credits):
- BAA379 Transportation Management 3
- CIOS A357 Management Information Systems 3
- CIOS A380 Managerial Presentations 3
- Elective* 3
- Elective* 3

Fourth Year
Fall Semester (15 credits):
- BAA415 Purchasing 3
- BAA495 Internship† 3
- Upper-division Logistics elective 3
- Upper-division Logistics elective 3
- Elective* 3

Spring Semester (12-14 credits):
- BAA488 The Environment of Business 3
- BAA416 International Logistics 3
- Upper-division Logistics elective 3
- Upper-division Logistics elective 3
- Elective* 0-2

* 100-level or higher in courses other than ACCT, BA, CIOS or ECON
** See approved Logistics courses in this section
† Internship in logistics. May be waived with advisor approval

Management Major

1. Complete the following requirements (27 credits). The following courses must be completed with a “C” or better prior to graduating:
   - BAA361 Human Resource Management 3
   - BAA461 Negotiations and Conflict Management 3
   - BAA462 Strategic Management 3
   - BAA481 Applications in Management 3
   - BAA489 Entrepreneurship and New Business Planning 3
   - Upper-division electives in ACCT, BA, CIOS or ECON 12

2. A total of 120 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year
Fall Semester (15 credits):
- ENGLA111 Methods of Written Communication 3
- COMM A111, A235, A237 or A241 3
- Humanities GER 3
- Natural Science GER 3
- Elective* 3

Spring Semester (16-17 credits):
- CIOS A110 Computer Concepts in Business 3
- ENGLA211, A212 or A213 (ENGLA212 recommended) 3
- MATH A270 or A200 3-4
- Humanities GER 3
- Natural Science with lab GER 4

Second Year
Fall Semester (15-16 credits):
- ACCT A201 Principles of Financial Accounting 3
- BAA241 Business Law I 3
- ECON A201 Principles of Macroeconomics 3
- MATH A272 or A200 3-4
- PSYA111 General Psychology 3

Spring Semester (15 credits):
- ACCT A202 Principles of Managerial Accounting 3
- BAA273 Introduction to Statistics 3
- ECON A202 Principles of Microeconomics 3
- Fine Arts GER 3
- SOC A101 Introduction to Sociology 3
Second Year
Fall Semester (15-16 credits):
ACCT A201 Principles of Financial Accounting 3
BAA241 Business Law I 3
ECON A201 Principles of Macroeconomics 3
MATH A272 or A200 3-4
SOC A101 Introduction to Sociology 3
Spring Semester (15 credits):
ACCT A202 Principles of Managerial Accounting 3
BAA273 Introduction to Statistics 3
ECON A202 Principles of Microeconomics 3
Fine Arts GER 3
Elective* 3

Third Year
Fall Semester (15 credits):
BAA300 Organizational Theory and Behavior 3
BAA325 Corporate Finance 3
BAA343 Principles of Marketing 3
CIOS A380 Managerial Presentations 3
Elective* 3
Spring Semester (15 credits):
BAA361 Human Resource Management 3
BAA377 Operations Management 3
CIOS A376 Management Information Systems 3
Upper-division Business elective 3
Elective* 3

Fourth Year
Fall Semester (15 credits):
BAA461 Negotiations and Conflict Management 3
BAA462 Strategic Management 3
BAA488 The Environment of Business 3
Upper-division Business elective 3
Elective* 3
Spring Semester (12-14 credits):
BAA481 Applications in Management 3
BAA489 Entrepreneurship and New Business Planning 3
Upper-division Business elective 3
Upper-division Business elective 3
Elective* 0-2

* 100-level or higher in courses other than ACCT, BA, CIOS or ECON

Marketing Major
1. Complete the following courses (15 credits) with a “C” or better prior to graduating:
   BAA264 Personal Selling 3
   BAA310 Consumer Behavior 3
   BAA350 Marketing Research 3
   BAA460 Marketing Management 3
   ECON A429 Business Forecasting (3) 3
   or
   BAA375 Statistics for Business and Economics (3)
2. The following courses must be completed with a “C” or better prior to graduating:
   Upper-division Business electives 6
   Recommended:
   BAA447 International Marketing (3)
   BAA463 Promotion Management (3)
3. A total of 120 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

RECOMMENDED COURSE SEQUENCE
To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year
Fall Semester (15 credits)
ENGLA111 Methods of Written Communication 3
COMM A111, A235, A237 or A241 3
Humanities GER 3
PSY A111 General Psychology 3
Spring Semester (16-17 credits)
CIOS A110 Computer Concepts in Business 3
ENGLA211, A212 or A213 (ENGLA212 recommended) 3
MATH A270 or A107 3-4
Humanities GER 3
Natural Science with lab GER 4

Second Year
Fall Semester (15-16 credits)
ACCT A201 Principles of Financial Accounting 3
BA264 Personal Selling 3
ECON A201 Principles of Macroeconomics 3
MATH A272 or A200 3-4
SOC A101 Introduction to Sociology 3
Spring Semester (15 credits)
ACCT A202 Principles of Managerial Accounting 3
BAA273 Introduction to Statistics 3
ECON A202 Principles of Microeconomics 3
Fine Arts GER 3
Elective* 3

Third Year
Fall Semester (15 credits)
BAA300 Organizational Theory and Behavior 3
BAA325 Corporate Finance 3
BAA343 Principles of Marketing 3
CIOS A380 Managerial Presentations 3
Elective* 3
Spring Semester (15 credits)
BAA310 Consumer Behavior 3
BAA350 Marketing Research 3
BAA377 Operations Management 3
ECON A429 or BAA375 3
Upper-division elective 3

Fourth Year
Fall Semester (15 credits)
BAA461 Negotiations and Conflict Management 3
Upper-division Business elective 3
Upper-division elective** 3
Elective* 3
Elective* 3
Spring Semester (12-14 credits)
BAA460 Marketing Management 3
CIOS A376 Management Information Systems 3
Upper-division Business elective 3
Upper-division elective** 3
Elective* 0-2
* 100-level or higher in courses other than ACCT, BA, CIOS or ECON
** 300- or 400-level courses other than BA, CIOS, ACCT or ECON
MINOR, BUSINESS ADMINISTRATION *

Students majoring in another subject who wish to minor in Business Administration must complete the following requirements. A total of 21 credits is required for the minor. Prerequisites for these courses must also be satisfied.

- ACCT A201 Principles of Financial Accounting 3
- ACCT A202 Principles of Managerial Accounting 3
- ECON A201 Principles of Macroeconomics 3
- ECON A202 Principles of Microeconomics 3
- Upper-division Business electives 9

*Not available to BBAmajors.

FACULTY

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COMPUTER INFORMATION AND OFFICE SYSTEMS

www.cpbb.alaska.edu/DEGREES/cios.html
Business Education Building (BEB), Room 309, (907) 786-4100

The Computer Information and Office Systems Department provides educational opportunities in computer information systems and office systems and technology through certificate and degree programs, courses for all students, and career-enrichment opportunities.

Courses involving computer instruction as well as many other business school courses are supported by seven computerized classrooms and state-of-the-art open laboratory facilities. These computer classrooms and labs provide students with hands-on learning experiences using the latest Intel Pentium workstations supported by NT and UNIX network servers. Our computers provide experiences using several operating systems, most major application software, and several languages from third generation to modern 4GL, query, and object-oriented environments.

College of Business and Public Policy students have the opportunity to use the computer facilities to help them with their course work. New laboratories include a special business presentation facility and an experimental decision-support room.

Computer and office-related courses are taught using both structured instructor-led and self-guided tutorial approaches. The Technology Learning Center (TLC) provides an open-entry/open-exit environment for students to learn a variety of skills on a self-paced basis. In these courses students begin at a level appropriate for them, work at their own pace, and receive the individual instruction needed to succeed.

Computer Information Systems
(Business Computer Information Systems, Management Information Systems)

The College of Business and Public Policy prepares students for computer careers in computer programming and systems design through our Associate of Applied Science Degree in Business Computer Information Systems (BCIS). Students are prepared for computer careers in systems analysis and design, web-design, end-user computing, managing information systems, databases and networks, and associated occupations through the Management Information Systems (MIS) major in the Bachelor of Business Administration. Both degrees are based on the DPMA model curriculum and are linked so that the careful student can move from the two-year to four-year degree without losing credits.

Both degrees emphasize using computers within business and public sector settings through hands-on teaching methods. The student is prepared for the technical aspects of the computer environment as well as the techniques and issues of managing information resources.

Computer career education in the College of Business and Public Policy is enhanced by work and internship opportunities both within our own laboratories and with business and government facilities. The CIOS Department assists its graduates with job placement.
Office Management and Technology

Office Management and Technology (OMT) programs provide career education leading to a certificate or an Associate of Applied Science degree, as well as job enrichment courses.

You may choose between two emphases in the Associate of Applied Science (OMT) degree: Secretarial, and Bookkeeping (Bookkeeping is offered only at the Kodiak campus). The certificate offers concentrated study in Office Technology. In addition, the certificate provides the student with flexibility in selecting elective credits from the following subject areas: computer word/information processing, business communications, and bookkeeping.

OMT programs prepare students for career entry or advancement and also offer skills preparation for personal use. Courses meet the needs of beginning, experienced, or re-entry office workers, including secretaries, file clerks, receptionists, typists, word/information processors, and office supervisors. Review courses are also available to prepare candidates for the Certified Professional Secretary (CPS) Examination.

CERTIFICATE, OFFICE TECHNOLOGY

1. Complete the following 13 credits:
   - CIOS A160 Business English 3
   - CIOS A165 Office Procedures 3
   - CIOS A167 Proofreading 1
   - CIOS A262 Written Business Communications 3
   - CIOS A264 Interpersonal Skills in Organizations 3

2. Complete 3 credits from the following:
   - CIOS105 Introduction to PC Computers and Applications (3)
   - CIOS A107 Macintosh Computer and Applications (3)
   - CIOS A110 Computer Concepts in Business (3)

3. Complete 3-6 credits from the following:
   - CIOS A100* Keyboarding I (3)
   - CIOS A100A* Keyboarding I: A (1)
   - CIOS A100B* Keyboarding I: B (1)
   - CIOS A100C* Keyboarding I: C (1)
   - CIOS A102 Keyboarding Skill Building (1)
   - CIOS A260 Keyboarding II (3)
   - CIOS A266 Keyboarding II (3)
   *Credit will not be counted for BOTH CIOS A100 and CIOS A100A, A100B, and A100C.

4. Complete 1 credit from the following:
   - CIOS A115 Selected Introductory Word Processing Applications (1)
   - CIOS A215 Selected Advanced Word Processing Applications (1)

5. Complete 1-3 credits from the following:
   - CIOS A166 Filing (1)
   - CIOS A276 Records Management (3)

6. Complete elective credits approved by the CIOS department.

7. A total of 30 credits is required for the certificate.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is highly that recommended students follow this course sequence:

First Year
Fall Semester (15 credits):
   - CIOS A100 Keyboarding I* 3-6
   - or
   - CIOS A100A, A100B and A100C (1 credit each)*† 3
   - or
   - CIOS A102 Keyboarding Skill Building* 3
   - or
   - CIOS A260 Keyboarding II* 3
   - CIOS A105 Introduction to PC Computers and Applications 3
   - CIOS A110 Computer Concepts in Business 3
   - CIOS A160 Business English 3
   - CIOS A165 Office Procedures 3
   - Elective(s)** 3

Spring Semester (13-17 credits):
   - CIOS A115 Selected Introductory Word Processing Applications*
   - or
   - CIOS A215 Selected Advanced Word Processing Applications*
   - CIOS A166 Filing 1-3
   - or
   - CIOS A276 Records Management 3
   - CIOS A167 Proofreading 1
   - CIOS A262 Written Business Communications 3
   - CIOS A264 Interpersonal Skills in Organizations 3
   - BAA231 Fundamentals of Supervision†† 3
   - Elective(s)** 4-6
   *    Representative courses. See catalog for complete list.
   **  Elective credits approved the CIOS department/your advisor.
   †    Credit will not be counted for BOTH CIOS A100 and CIOS A100A, A100B and A100C.
   †† CBPBlanket petition allows for students to take BAA231 as part of this certificate.

ASSOCIATE OF APPLIED SCIENCE, BUSINESS COMPUTER INFORMATION SYSTEMS

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Program Admission Requirements at the beginning of this chapter. English and Math Placement Tests are given by the Advising and Counseling Center. Your faculty advisor will assist you by recommending the proper levels of entry and appropriate CIOS course plan. Students who are not proficient in typing (a minimum of 30 wpm) should enroll in CIOS A100AKeyboarding I:A. Students must be able to read and comprehend technical manuals and texts.

ACADEMIC PROGRESS

A grade of “C” or higher is required to continue in each higher CIOS course. To take upper-division Information Systems program courses, students must complete lower-division degree requirements and apply for upper-division standing.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
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MAJOR REQUIREMENTS

1. Complete the breadth requirement (21-22 credits):
   - ACCT A201 Principles of Financial Accounting 3
   - ACCT A202 Principles of Managerial Accounting 3
   - CIOS A110 Computer Concepts in Business 3
   - ECON A201 Principles of Macroeconomics 3
   - ECON A202 Principles of Microeconomics 3
   - MATH A270 Applied Finite Mathematics for the Managerial Sciences (3) 3-4
   - or
   - MATH A107 College Algebra (4)
   - General Education Requirement Elective* 3

*Choose Humanities or Natural Sciences course that meets both AAS and General Education Requirements for Baccalaureate Degrees.

2. Complete the Business core requirement (3 credits):
   - BA A273 Introduction to Statistics for Business and Economics 3

3. Complete CIOS required courses (16 credits):
   - CIOS A185 Introduction to Programming Business Applications 3
   - CIOS A201 Programming Business Applications 4
   - CIOS A330 Analysis of Business Systems 3
   - CIOS A345 Managing Data Communications and Computer Networks 3

4. Complete elective credits approved by a CIOS Department advisor (6 credits).
5. A minimum of 12 credits from Major Requirements, items 3 and 4 above, must be earned at the University of Alaska Anchorage.
6. A total of 61-62 credits is required for the degree.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year

Fall Semester (15-16 credits):
- ACCT A201 Principles of Financial Accounting 3
- CIOS A110 Computer Concepts in Business 3
- ENGL A111 Methods of Written Communication 3
- MATH A270 or A107 General Requirement* 3-4
- Spring Semester (15 credits):
- ACCT A202 Principles of Managerial Accounting 3
- CIOS A185 Introduction to Programming Business Applications 3
- ENGL A211, A212 or A213 (ENGL A212 recommended) 3
- COMM A111, A235, A237 or A241 3
- General Requirement* 3

Second Year

Fall Semester (16 credits):
- BAA 273 Introduction to Statistics for Business and Economics 3
- CIOS A330 Database Management Systems 3
- CIOS A201 Programming Business Applications 4
- ECON A201 Principles of Macroeconomics 3
- General Education Requirement** 3

Spring Semester (15 credits):
- CIOS A345 Managing Data Communication and Computer Networks 3
- CIOS A310 Analysis of Business Systems 3
- ECON A202 Principles of Microeconomics 3
- Program elective† 3
- Program elective† 3

† See General Requirement list for approved course classifications
‡ See General Education Requirement list for approved courses

* If CIOS A262 was taken to meet the Written Communications General Education Requirement, then complete 3 elective CIOS credits of your choice.

ASSOCIATE OF APPLIED SCIENCE, OFFICE MANAGEMENT AND TECHNOLOGY

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements located at the beginning of this chapter. CIOS A262 recommended.

MAJOR REQUIREMENTS

A. Bookkeeping Emphasis

This emphasis is offered only through Kodiak College.

1. Complete 21 credits from the following required courses:
   - CIOS A100* Keyboarding I (3) 3
   - CIOS A100A* Keyboarding I: A (1)
   - CIOS A100B* Keyboarding I: B (1)
   - CIOS A100C* Keyboarding I: C (1)
   - CIOS A160 Business English 3
   - CIOS A161 Business Math 3
   - CIOS A162 Payroll Procedures 1
   - Any A100/200-level ACCT, BA, CIOS, or ECON elective 4

2. Complete 18 credits from the following:
   - ACCT A101 Principles of Financial Accounting I 3
   - ACCT A102 Principles of Financial Accounting II 3
   - ACCT A120 Bookkeeping for Business I 3
   - BAA 131 Personal Finance 3
   - CIOS A162 Payroll Procedures 1
   - Any A100/200-level ACCT, BA, CIOS, or ECON elective 4

3. General electives 6
4. A minimum of 60 credits is required for the degree.

B. Secretarial Emphasis

1. Complete 13 credits from the following:
   - CIOS A160 Business English 3
   - CIOS A161 Business Math 3
   - CIOS A165 Office Procedures 3
   - CIOS A167 Proofreading 1
   - CIOS A264 Interpersonal Skills in Organizations 3
2. Complete 6 credits from the following: 6
   CIOS A100* Keyboarding I (3)
   or
   CIOS A100A* Keyboarding I: A (1)
   CIOS A100B* Keyboarding I: B (1)
   CIOS A100C* Keyboarding I: C (1)
   CIOS A102 Keyboarding Skill Building (1)
   CIOS A260 Keyboarding II (3)
   CIOS A261 Keyboarding III (3)

   *Credit will not be counted for BOTH CIOS A100 and CIOS A100A, A100B, and A100C.

3. Complete 1-3 credits from the following: 1-3
   CIOS A250A Machine Transcription A (1)
   CIOS A250B Machine Transcription B (1)
   CIOS A251 Medical Transcription (3)
   CIOS A252 Legal Transcription (1-3)

4. Complete 3 credits from the following: 3
   CIOS A105 Introduction to PC Computers (3) and Applications
   CIOS A110 Computer Concepts in Business (3)

5. Complete 1-3 credits from the following: 1-3
   CIOS A115 Selected Introductory Word Processing Applications* 1
   CIOS A215 Selected Advanced Word Processing Applications (1)

6. Complete 3 credits from the following: 3
   CIOS A262* Written Business Communications (3)

   *If CIOS A262 was taken to meet the Written Communications General Education Requirement, then complete 3 elective CIOS credits of your choice.

7. Complete 3 credits from the following: 3
   ACCT A101 Principles of Financial Accounting I (3)
   ACCT A120 Bookkeeping for Business I (3)
   ACCT A201 Principles of Financial Accounting (3)

8. Complete 3 credits from the following: 3
   CIOS A107 Macintosh Computer and Applications (3)
   CIOS A107A Introduction to Macintosh Computers (1)
   CIOS A116B Introduction to Desktop Publishing on IBM (1)
   or
   CIOS A338 Desktop Publishing and Design (3)

9. Complete 7-9 credits from the following: 7-9
   CIOS A166 Filing (1)
   or
   CIOS A276 Records Management (3)
   CIOS A263 Professional Secretarial Procedures (3)
   or
   BAA231 Fundamentals of Supervision (3)
   BAA151 Introduction to Business (3)
   BAA166 Small Business Management (3)

10. Complete 0-5 elective credits to total 60 credits. 0-5
    CIOS A168 Shorthand (3)
    CIOS A170 Calculators (1)
    CIOS A192 Seminars in Office Management and Technology (1)

11. A minimum of 60 credits is required for the degree.

**RECOMMENDED COURSE SEQUENCE**

To accommodate course prerequisites and scheduling, it is highly that recommended students follow this course sequence:

**First Year**

Fall Semester (15 credits):
   CIOS A100 Keyboarding I 3
   or
   CIOS A260 Keyboarding II 3
   CIOS A105 Introduction to PC Computers and Applications 3
   or
   CIOS A110 Computer Concepts in Business 3
   CIOS A160 Business English 3
   CIOS A165 Office Procedures 3
   CIOS A115 Selected Introductory Word Processing Applications* 1
   CIOS A215 Selected Advanced Word Processing Applications* 1
   Elective 1

Spring Semester (15 credits):
   CIOS A161 Business Math 3
   CIOS A166 Filing* 1
   CIOS A167 Proofreading 1
   CIOS A250A Machine Transcription A 1
   CIOS A260 Keyboarding II 3
   or
   CIOS A215 Selected Advanced Word Processing Applications 3
   CIOS A261 Keyboarding III 3
   CIOS A262 Written Business Communications† 3
   CIOS A264 Interpersonal Skills in Organizations 3
   or
   BAA231 Fundamentals of Supervision†† 3

**Second Year**

Fall Semester (15-17 credits):
   ACCT A101 Principles of Financial Accounting I 3
   or
   ACCT A120 Bookkeeping for Business I 3
   ENGL A111 Methods of Written Communication 3
   COMM A111, A235, A237 or A241 3
   General Requirement** 3
   Program elective (must be approved by CIOS advisor) 3
   Elective 0-2

Spring Semester (15 credits):
   BAA151 Introduction to Business 3
   or
   BAA166 Small Business Management 3
   CIOS A263 Professional Secretarial Procedures 3
   General Requirement** 3
   CIOS A295C Office Systems Internship 3
   Elective 3

* Representative courses. See catalog for complete list.
** See General Requirement list for approved course classifications
† If CIOS A262 was taken to meet the Written Communications General Education Requirement, then complete three (3) elective CIOS credits of your choice.
†† CBP/Blanket petition allows for students to take BAA231 as part of this degree.
C. Legal Secretarial Emphasis

1. Complete 13 credits from the following:
   - CIOS A160 Business English 3
   - CIOS A161 Business Math 3
   - CIOS A165 Office Procedures 3
   - CIOS A167 Proofreading 1
   - CIOS A264 Interpersonal Skills in Organizations 3

2. Complete 1-3 credits from the following:
   - CIOS A250A Machine Transcription A (1)
   - CIOS A251 Medical Transcription (3)
   - CIOS A252 Legal Transcription (1-3)

3. Complete 3 credits from the following:
   - CIOS A105 Introduction to PC Computers and Applications (3)
   - CIOS A110 Computer Concepts in Business (3)

4. Complete 1-3 credits from the following:
   - CIOS A115 Selected Introductory Word Processing Applications (1)
   - CIOS A215 Selected Advanced Word Processing Applications (1)

5. Complete 3 credits from the following:
   - CIOS A262* Written Business Communications 3
   *If CIOS A262 was taken to meet the Written Communications General Education Requirement, then complete 3 elective CIOS credits of your choice.

6. Complete 3 credits from the following:
   - ACCT A101 Principles of Financial Accounting I (3)
   - ACCT A120 Bookkeeping for Business I (3)
   - ACCT A201 Principles of Financial Accounting (3)

7. Complete 18 credits from the following:
   - CIOS A261 Keyboarding III (3)
   - CIOS A272 Law Office Procedures: Litigation (3) Documents
   - CIOS A273 Law Office Procedures: Client Documents (3)
   - CIOS A274 Alaska Rules of Civil Procedures (3)
   - CIOS A263 Professional Secretarial Procedures (3)
   - BAA151 Introduction to Business (3)
   - BAA231 Fundamentals of Supervision (3)
   - PARLA101 Introduction to Law (3)
   - JUST A110 Introduction to Justice (3)
   - BA/JUST A241 Business Law I (3)

8. Complete the following (3 credits):
   - CIOS A295C Office Systems Internship (1-6) 3
   *One year work experience in an Alaska law office within the last five years may be substituted for CIOS A295C. If work experience is substituted, complete CIOS elective credits to equal 60 credits.

9. A minimum of 60 credits is required for the degree.
1. Complete the Business Core requirements (24-26) with a grade of “C” or better:
   - ACCT A201 Principles of Financial Accounting 3
   - ACCT A202 Principles of Managerial Accounting 3
   - BAA273 Introduction to Statistics for Business and Economics 3
   - CIOS A110 Computer Concepts in Business 3
   - ECON A201 Principles of Macroeconomics 3
   - ECON A202 Principles of Microeconomics 3
   - MATH A270 Applied Finite Mathematics for the Managerial Sciences (3) 3-4
   or
   - MATH A107 College Algebra (4)
   - MATH A272 Calculus for Managerial Sciences (3) 3-4
   or
   - MATH A200 Calculus I (4)

   Note: Students who plan to attend graduate school are encouraged to take MATH A107 (College Algebra) and MATH A200-201-202 (Calculus) instead of MATH A270 and MATH A272.

2. Complete these upper-division core courses (21 credits) with a grade of “C” or better:
   - BAA300 Organizational Theory and Behavior 3
   - BAA325 Corporate Finance 3
   - BAA343 Principles of Marketing 3
   - BAA377 Operations Management 3
   - CIOS A380 Managerial Presentations 3
   - BAA488 The Environment of Business 3
   - CIOS A376 Management Information Systems 3

D. MAJOR REQUIREMENTS

1. Complete the following required courses (22 credits) with a grade of “C” or better:
   - CIOS A185 Introduction to Programming Business Applications 3
   - CIOS A201 Programming Business Applications 4
   - CIOS A310 Analysis of Business Systems 3
   - CIOS A330 Database Management Systems 3
   - CIOS A345 Managing Data Communication and Computer Networks 3
   - CIOS A410 Project Management 3
   - CIOS A489 Systems Design and Implementation 3

2. Complete 12 credits of upper-division program electives approved by the department with a grade of “C” or better.
   These may include, but are not limited to:
   - CIOS A315 Advanced Topics in Microcomputer Applications for Business (3)
   - CIOS A340 Client-Server Programming (3)
   - CIOS A360 Rapid Application Development (3)
   - CIOS A361 Advanced C Programming and UNIX Environment (3)
   - CIOS A365 Object-Oriented Programming (3)
   - CIOS A395 Programmer/Analyst Internship (1-3)
   - CIOS A420 Consulting and Training End Users (3)
   - CIOS A421 Multimedia Authoring (3)
   - CIOS A422 Web Site Design and Development (3)
   - CIOS A430 Decision Support and Expert Systems (3)
   - CIOS A445 Advanced Network Management (3)
   - CIOS A490 MIS Seminar/Project (1-6)
   - ECON A429 Business Forecasting (3)
   - CIOS A495 Systems Analyst/User-Support Internship (1-3)

3. A minimum of CIOS A489 and 9 credits from Major Requirements, items 1 and 2, must be earned at the University of Alaska Anchorage.

4. A total of 120 credits is required for the degree, of which a minimum of 48 credits must be upper-division.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is strongly recommended that students follow this course sequence:

First Year
Fall Semester (15-16 credits):
   - CIOS A110 Computer Concepts in Business 3
   - ENGL A111 Methods of Written Communication 3
   - MATH A270 or A107 3-4
   - COMM A111, A235, A237 or A241 3
   - Humanities GER 3

Spring Semester (15-16 credits):
   - CIOS A185 Introduction to Programming Business Applications 3
   - ENGL A211, A212 or A213 (ENGL A212 recommended) 3
   - MATH A272 or A200 3-4
   - Humanities GER 3
   - Natural Science GER 3

Second Year
Fall Semester (16 credits):
   - ACCT A201 Principles of Financial Accounting 3
   - BAA273 Introduction to Statistics for Business and Economics 3
   - CIOS A201 Programming Business Applications 4
   - ECON A201 Principles of Macroeconomics 3
   - Social Science GER 3

Spring Semester (16 credits):
   - ACCT A202 Principles of Managerial Accounting 3
   - ECON A202 Principles of Microeconomics 3
   - Arts GER 3
   - Natural Science with lab GER 4
   - Social Science GER 3

Third Year
Fall Semester (15 credits):
   - BAA300 Organizational Theory and Behavior 3
   - CIOS A330 Database Management Systems 3
   - CIOS A376 Management Information Systems 3
   - Elective* 3

Spring Semester (15 credits):
   - BAA325 Corporate Finance 3
   - CIOS A310 Analysis of Business Systems 3
   - BAA343 Principles of Marketing 3
   - BAA377 Operations Management 3
   - Upper-division program elective** 3
Fourth Year

Fall Semester (15 credits):
- CIOS A410 Project Management 3
- CIOS A345 Managing Data Communication and Computer Networks 3
- Upper-division program elective** 3
- Upper-division program elective** 3
- Elective* 3

Spring Semester (12-14 credits):
- BAA488 The Environment of Business 3
- CIOS A489 Systems Design and Implementation 3
- Upper-division program elective** 3
- Elective* 3
- Elective* 0-2

* 100-level or higher in courses other than ACCT, BA, CIOS or ECON
** See approved list of upper-division program electives in this section.

MINOR, COMPUTER INFORMATION SYSTEMS*

Students majoring in another subject who wish to minor in Computer Information Systems (CIS) must complete the following requirements. A total of 18 credits is required for the minor, 12 of which must be upper-division.

- CIOS A110 Computer Concepts in Business 3
- CIOS A185 Introduction to Programming 3
- CIOS A330 Database Management Systems 3
- CIOS A376** Management Information Systems 3
- Upper-division CIOS electives 6

All students pursuing a minor in CIS must apply to the College of Business and Public Policy for upper-division standing prior to taking any upper-division course in CIS. Students pursuing a baccalaureate degree outside the College of Business and Public Policy with a minor in CIS can establish upper-division standing by going to the College of Business and Public Policy Student Information Office and certifying they have completed at least 54 credits in their degree program and have completed General Education Requirements of 6 credits of written communications, 3 credits of oral communication, 3 credits of college algebra (MATH107 or MATH A270 or equivalent), and 12 credits in GER courses in Fine Arts, Humanities, Social Sciences, or Natural Sciences.

*Not available to BBAManagement Information Systems majors.
**BBAdegree students must take CIOS A310, instead of CIOS A376 to meet the requirements for the minor (CIOS A376 is already required in the business core).

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ECONOMICS

www.cbpp.alaska.edu/DEGREES/econ.html
Business Education Building (BEB), Room 309, (907) 786-4100

The Economics department provides students with a systematic way of understanding activity in the world around them. Economics is a social science which studies how individuals, organizations, and governments make choices about the use of resources. A degree in economics gives students career opportunities in many fields and provides excellent preparation for those who wish to pursue advanced study in a variety of disciplines. The Economics department offers courses for both degree and non-degree-seeking students at the undergraduate and graduate levels. Students who wish to major in Economics may choose either the Bachelor of Arts or Bachelor of Business Administration degree. A minor in Economics is also offered.

HONORS IN ECONOMICS

Students majoring in economics are eligible to graduate with departmental honors if they satisfy all of the following requirements: 1) meet requirements for BAor BBA in Economics; 2) maintain a GPA of 3.5 in their major requirements; 3) complete ECON A488, Seminar in Economic Research with a grade of "A", or complete a research paper with a grade of "A" which demonstrates independent economic research in a semester length independent study course; and 4) receive an honors score on a comprehensive exam for economics majors. Students not meeting all these requirements may be awarded Honors through a vote of the faculty.

BACHELOR OF ARTS, ECONOMICS

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.
C. MAJOR REQUIREMENTS

1. Complete the following required courses with a grade of “C” or better (36-37 credits):
   - BAA273 Introduction to Statistics for Business and Economics 3
   - ECON A201 Principles of Macroeconomics 3
   - ECON A202 Principles of Microeconomics 3
   - ECON A321 Intermediate Microeconomics 3
   - ECON A324 Intermediate Macroeconomics 3
   - ECON A350 Money and Banking 3
   - ECON A412 Econometrics (3) 3
   or ECON A430 Mathematics for Economists (3)
   - MATH A272 Calculus for Managerial Sciences (3) 3-4
   or MATH A200 Calculus I (4)
   - Upper-division Economics electives 12

   *Note: No more than a total of 6 credits earned in an independent study, or ECON A454, Economics Internship, may be used to satisfy requirements for the major (6 credits of independent study and 3 credits of independent study and 3 credits of ECON A454).

   Note: Math skills are important in the study of economics. For this reason majors are to complete their math requirements early in their program. Students planning on graduate school are advised to take the entire calculus sequence (MATH A200, A201, A202).

2. Students must complete at least 12 credits of their Economics courses in residence at UAA.

3. A total of 120 credits is required for the degree, of which 48 credits must be upper-division.

RECOMMENDED COURSE SEQUENCE

First Year
- Fall Semester (15-16 credits):
  - Written Communications GER 3
  - COMM A111, A235, A237 or A241 3
  - Natural Science GER 3
  - MATH A270 or A107 or elective† 3-4
  - Humanities GER 3
- Spring Semester (16 credits):
  - Written Communications GER 3
  - Humanities GER 3
  - Natural Science with lab GER 4
  - CIOS A110 or elective† 3
  - Elective* 3

Second Year
- Fall Semester (15-16 credits):
  - ECON A201 Principles of Macroeconomics 3
  - MATH A272 or A200 3-4
  - Social Science GER 3
  - Elective* 3
  - Elective* 3
- Spring Semester (15 credits):
  - ECON A202 Principles of Microeconomics 3
  - BAA273 Introduction to Statistics for Business and Economics 3
  - Fine Arts GER 3
  - Social Science GER 3
  - Elective* 3

Third Year
- Fall Semester (15 credits):
  - ECON A321 Intermediate Microeconomics 3
  - ECON A350 Money and Banking 3
  - Upper-division elective 3
  - Upper-division elective 3
  - Elective* 3
- Spring Semester (15 credits):
  - ECON A324 Intermediate Macroeconomics 3
  - Upper-division ECON elective 3
  - Upper-division elective 3
  - Upper-division elective 3
  - Elective* 3

Fourth Year
- Fall Semester (15 credits):
  - ECON A412 or A430 3
  - Upper-division ECON elective 3
  - Upper-division elective 3
  - Upper-division elective 3
  - Elective* 3
- Spring Semester (12-14 credits):
  - Upper-division ECON elective 3
  - Upper-division ECON elective 3
  - Upper-division elective 3
  - Upper-division elective 3
  - Elective* 0-2

* 100-level or higher
† This degree requires [MATH A200 or A272] and BAA273. Check catalog for prerequisites.

MINOR, ECONOMICS*

Students majoring in another subject who wish to minor in Economics must complete the following requirements. A total of 18 credits is required for the minor, 12 of which must be upper-division.

- ECON A201 Principles of Macroeconomics 3
- ECON A202 Principles of Microeconomics 3
- Upper-division Economics electives 12

*Not available to BA and BBAEconomics majors.

FACULTY

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The College of Health, Education and Social Welfare is comprised of the School of Education, the School of Nursing, the Division of Human Services and Health Sciences, the Justice Center, and the School of Social Work. The College offers a variety of certificate, undergraduate, and graduate degree options for students who are attracted to people-oriented careers. It also provides a special opportunity for cross-disciplinary studies as they relate to the human aspects of our culture, and helps to prepare graduates for the increasingly integrated approaches to service delivery demanded by society.

Professional programs housed within this college share a common interest in issues that impact the development, health, and well being of individuals and communities. The instructional, service and scholarship efforts of the faculty in the various curricula are enhanced and supported by collaborative research and service activities in the Center for Alcohol and Addiction Studies, the Center for Human Development, and the Institute for Circumpolar Health Studies. Together, through multi-disciplinary approaches, the schools, departments, centers and institutes take direct action to address the needs and potentials of Alaska’s peoples and communities.

SCHOOL OF EDUCATION
www.uaa.alaska.edu/ed/
Classroom Building K (K), Room 217, (907) 786-4401

In its mission to provide instruction, service and research to the Alaska 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.

The School of Education is comprised of two departments: The Teacher Education Department with programs in elementary education, secondary education, and special education; and, the Department of Educational Development and Leadership with programs in adult education, counseling and guidance, educational leadership, and health, outdoor and physical education. The School’s professional preparation programs are approved by the Alaska State Department of Education and meet the standards approved by the National Association of State Directors of Teacher Education and Certification.

Currently, the elementary education program is a four-year undergraduate preparation while preparation as a secondary educator is a graduate, fifth-year MAT program. Admission into the School of Education for prospective elementary teachers generally occurs during the sophomore year; admission for prospective secondary educators requires prior completion of a baccalaureate degree in an approved content area. Specific details are presented under the relevant sections of the catalog.

APPROVEDPROGRAMS: Elementary education; secondary education*; physical education (elementary and secondary); Reading specialist*; counseling and guidance*; educational leadership* (K-12 Principal, superintendent); special education* (mild disabilities).

*Note: Indicates post-baccalaureate programs.

In addition to these professional preparation programs for educators, the School also offers an early childhood development certificate and associate degree.

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 an 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.

Minimum credits required for the Bachelor of Education degree are 130. Students should be advised that total credits frequently exceed minimums because of prerequisite requirements, individually selected majors and minors, and areas of specialization and/or emphasis.

HIGH SCHOOL PREPARATION

The following high school courses are recommended in preparation for admission to the School of Education:

1. English composition and writing
2. Verbal communication
3. Mathematics through algebra
4. Computer-related course work
5. Background in social sciences
6. Background in natural sciences
EARLY CHILDHOOD DEVELOPMENT

Classroom Building K (K), Room 217, (907) 786-4401

The Early Childhood Development program at UAA brings together the theory and practice of quality child care and the education of young children. The program is based on the nationally recognized Child Development Associate (CDA). Easy and clear articulation occurs from the nontranscribed CDA credential to the Associate of Applied Science in Early Childhood Development (61 credits).

CERTIFICATE, EARLY CHILDHOOD DEVELOPMENT

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter. In order to be admitted to the Early Childhood Development Program, students must complete an application to the Early Childhood Development Certification Program. Applications may be obtained from the School of Education. To be admitted to the Early Childhood Development practicum courses (ECD A295A and ECD A295B), students must meet all requirements for and be admitted by an advisor into the practicum courses and have earned a grade of “C” or above in all ECD courses.

ACADEMIC PROGRESS

All students in the Early Childhood Development Certification Program must maintain a cumulative GPA of 2.0 or above in all ECD courses.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

- ECD A105 Introduction to the Field of Early Childhood 3
- ECD A111 Safe Learning Environments 1
- ECD A112 Healthy Learning Environments 1
- ECD A113 Learning Environments 1
- ECD A121 Physical Activities for Young Children 1
- ECD A122 Cognitive Activities for Young Children 1
- ECD A123 Communication 1
- ECD A124 Creative Activities for Young Children 1
- ECD A131 Guidance and Discipline 1
- ECD A132 Social Development 1
- ECD A211 Development of a Sense of Self 1
- ECD A221 Families 1
- ECD A222 Program Management 1
- ECD A223 Exploring and Developing Personal Capabilities in Teaching 1
- ECD A224 Professionalism 1
- ECD A231 Screening 1
- ECD A232 Assessment/Recording 1
- ECD A233 Mainstreaming Preschool Children with Special Needs 1
- ECD A295A Practicum I 3
- ECD A295B Practicum II 3
- DN A145 Child Nutrition 2
- PSYA245 Child Development 3

2. A total of 31 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, EARLY CHILDHOOD DEVELOPMENT

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter. In order to be admitted to the Early Childhood Development Program, students must complete an application to the Associate of Applied Science Early Childhood Development Program. Applications may be obtained from the School of Education. To be admitted to the Early Childhood Development practicum courses (ECD A295A and ECD A295B), students must meet all requirements for and be admitted by an advisor into the practicum courses and have earned a grade of “C” or above in all ECD courses.

ACADEMIC PROGRESS

All students in the Associate of Applied Science Early Childhood Development Program must maintain a cumulative GPA of 2.0 or above in all ECD courses.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.

2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses:

- ECD A105 Introduction to the Field of Early Childhood 3
- ECD A111 Safe Learning Environments 1
- ECD A112 Healthy Learning Environments 1
- ECD A113 Learning Environments 1
- ECD A121 Physical Activities for Young Children 1
- ECD A122 Cognitive Activities for Young Children 1
- ECD A123 Communication 1
- ECD A124 Creative Activities for Young Children 1
- ECD A131 Guidance and Discipline 1
- ECD A132 Social Development 1
- ECD A211 Development of a Sense of Self 1
- ECD A221 Families 1
- ECD A222 Program Management 1
- ECD A223 Exploring and Developing Personal Capabilities in Teaching 1
- ECD A224 Professionalism 1
- ECD A231 Screening 1
- ECD A232 Assessment/Recording 1
- ECD A233 Mainstreaming Preschool Children with Special Needs 1
- ECD A295A Practicum I 3
- ECD A295B Practicum II 3
- DN A145 Child Nutrition 2
- PSYA245 Child Development 3

2. Complete an additional 15 credits of electives; 12 credits are to be selected from any of the baccalaureate General Education Requirements and 3 credits may be selected from any area. 15

3. A total of 61 credits is required for the degree.
CERTIFICATION PROGRAMS

The Alaska State Department of Education issues certificates under the “approved program” approach to certification. The University of Alaska Anchorage has the responsibility of recommending for certification persons who successfully complete one or more of its approved programs to the Commissioner of Education. The Dean of the College of Health, Education, and Social Welfare is the only person authorized to endorse students for the appropriate certificate. The approved programs at the University of Alaska Anchorage are as follows:

- Elementary Education
- Secondary Education
- Physical Education
- Reading Specialist
- Counseling and Guidance
- Educational Leadership
- Principal K-12
- Superintendent
- Special Education
- Early Childhood Special Education
- General Special Education

All students desiring certification through an undergraduate or graduate program must apply for admission into the School of Education. Students must successfully complete the School of Education’s “approved program,” as well as any additional requirements that may be initiated by the State of Alaska Department of Education.

Practica, internships, student teaching and other field placements are made only in cooperation with participating school districts. The school districts that work in cooperation with the School of Education reserve the right to request additional information and/or preparation from university students, per the district's established policies/practices. Cooperating districts also determine the number of available spaces and placements for university students. Placements may become competitive if the number of applicants exceeds the number of spaces. Districts also reserve the right to refuse and/or terminate students who do not meet a minimum standard of performance. Thus, while the University will make every effort to find appropriate field placements for students, admittance to a degree/certificate/endorsement program does not guarantee acceptance by cooperating school districts.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. MAJOR REQUIREMENTS
Please refer below for the Elementary Education or Physical Education major requirements.
ELEMENTARY EDUCATION MAJOR

A student interested in elementary education may obtain a B.Ed. in Elementary Education with teacher certification, a B.Ed. in Elementary Education without teacher certification, or an Alaska Teacher Certification for Elementary Education. Please contact the School of Education regarding the status of the Elementary Education programs, as they are currently being phased out and replaced with the new post baccalaureate teacher education program.

The B.Ed. in Elementary Education is a professional degree. A unique feature of the program is the integration of practicum experiences with the methods courses, enabling students to work in classrooms throughout their last two years of study. Since enrollment in this degree program is limited by the availability of practicum classrooms, students are advised that admission is competitive. The deadline for consideration for the fall semester is October 15 and for the spring semester March 15. Criteria considered for admission include: academic achievement, written and oral communication skills, and community involvement. Please contact the School of Education for additional information.

ADMISSION REQUIREMENTS

Elementary Teacher Certification Program

In order to be admitted to the teacher certification program, students must:

1. Obtain and complete an application to the program.
2. Complete a minimum of 45 semester credits (transfer credits may be used) with a minimum GPA of 2.75.
3. All students, regardless of catalog year, must successfully complete the Pre-Professional Skills Test prior to enrolling in ED A320 or above.

Elementary Student Teaching

Faculty will have the responsibility of determining a student’s readiness to enroll in ED A452E, Student Teaching. The student must realize that standards set forth below constitute minimum preparation, and it may be the judgment of the committee that the candidate needs further work to develop either content or methodological competencies.

In order to be admitted to student teaching, students must:

1. Meet all requirements for and be admitted to the Teacher Certification program.
2. Complete all major and teaching specialty requirements with a grade of “C” or higher.
3. Earn a minimum cumulative GPA of 2.75.
4. Submit verification of physical examination, including Tine test.
5. Submit an application form for student teaching by the appropriate date: fall semester by March 15; spring semester by October 15.

MAJOR REQUIREMENTS

A. Complete the following required courses (6 credits):
   MATH A205 Mathematics for Elementary School Teachers I 3
   Alaska Studies Course (see dept for approved courses) 3

B. Complete the following core courses (19 credits):
   ED A201 Introduction to Education 2
   ED A320 Foundations of Educational Technology 2
   ED A321 Instruction and Assessment 3
   ED A423 Philosophical Foundations of Education 3
   EDSE A312 Human Development and Learning 3
   EDSE A336 Classroom Management and Collaboration 3
   EDSE A419 Diversity in the Classroom 3

C. Complete the following methods courses* (30 credits)
   ED A401 Social Studies for Elementary Teachers 3
   ED A404 Teaching Science in Elementary Schools 3
   ED A407 Teaching of Elementary Mathematics 3
   EDPE A432 Classroom Teaching of Health Enhancement 3
   ED/ART A418 Methods: Art in the Elementary School 3
   ED A421 Development of Reading in Elementary School 6
   ED A422 Teaching Language Arts and Literature 6
   ED/MUS A471 Elementary Music Methods 3

D. Complete an approved teaching specialty 18
   Elementary education majors (B.Ed. degree candidates only) must complete a School of Education, approved teaching specialty. Teaching specialty course work must be taken outside the School of Education and a minimum of 18 credits is required. Approved specialties are on file in the School of Education.

E. ED A452E Student Teaching—Elementary** 12

F. A minimum of 130 credits is required for the degree, of which 42 credits must be upper-division.

*Practicum in public schools required as part of each course.
**See Admission Requirements for Elementary Student Teaching.

PHYSICAL EDUCATION MAJOR

The Health, Outdoor, and Physical Education (HOPE) Program is committed to excellence in teaching, service, and research in the discipline and professions of Health, Outdoor, and Physical Education. The Program is responsible for leadership in health, outdoor, and physical education for Southcentral Alaska, focusing on teacher and professional preparation. As a result, HOPE offers a bachelor’s degree (B.Ed., Physical Education), a minor, graduate courses, and community education courses.

PHYSICAL EDUCATION TEACHER CERTIFICATION PROGRAM

The professional nature of Physical Education as a discipline is reflected in the preparation of teachers and practitioners in the areas of human movement. In keeping with the University of Alaska Anchorage and School of Education mission, the Program involves several elements. The HOPE faculty provide high quality instruction that incorporates contemporary research findings and scholarship in physical education centering on educational practice and professional, community, and university service.

PROFESSIONAL PREPARATION PROGRAMS IN HEALTH, OUTDOOR, AND PHYSICAL EDUCATION

Students receiving a B.Ed. without a teacher certification may receive professional preparation in one or more fields such as wellness promotion, adventure education, exercise leadership for the fitness industry, recreation, or health enhancement. Students can pursue a general B.Ed. in Physical Education with an emphasis in one of the following areas.

Health Education
Adventure/Outdoor Education
Exercise/Sport Leadership
Teacher Certification
In order to enter the program, students must:
1. Schedule an entry interview with a HOPE faculty advisor.
2. Enroll in EDPE A175.
(Note: Students are encouraged to schedule an interview with a HOPE faculty advisor as early in their college career as possible.)

To enter methods courses, students must:
1. Earn a 2.75 GPA overall.
2. Complete all required EDPE 100- and 200-level courses. Concurrent enrollment in HOPE Program (EDPE) 300-level course work is appropriate.
3. Have earned 45 credits including the 34 credits of General Education Requirement courses. The 45 credits may include as many as 11 education credits.
4. Pass the School of Education competency tests in English, Writing, and Mathematics.
5. Complete the courses under the School of Education Physical Education core requirements.

Physical Education (Teacher Certification) Student Teaching
In order to be admitted to student teaching, students must:
1. Earn a 2.75 GPA overall.
2. Present a Portfolio/Experiential Vita to HOPE Committee prior to student teaching.
3. Be recommended by HOPE faculty.
4. Submit verification of physical examination and Tine test.
5. Have all course work completed.
6. Have current CPR and Standard First Aid Certifications.

MAJOR REQUIREMENTS:
A. Complete the following Physical Education Core Requirements (16 Credits):
   - ED A201 Introduction to Education 2
   - ED A320 Foundations of Educational Technology 2
   - ED A423 Philosophical Foundations of Education 3
   - EDPE A338 Human Motor Development and Learning 3
   - EDSE A336 Classroom Management and Collaboration 3
   - EDSE A419 Diversity in the Classroom 3

B. Complete the following courses (30 credits):
   - EDPE A140 Wilderness Adventures 2
   - EDPE A170 Survey of Adventure Education Activities 1
   - EDPE A175 Orientation to Health, Outdoor and Physical Education 2
   - EDPE A333 Organization and Administration of Health, Outdoor, and Physical Education 3
   - EDPE A334 Tests and Measurements in Health, Outdoor, and Physical Education 3
   - EDPE A335 Introduction to Exercise Physiology 3
   - EDPE A336 Kinesiology 3
   - EDPE A350 Socio-Psychological Bases of Physical Education and Sport and Recreation 3
   - EDPE A436 Methods of Teaching Adventure Education 3
   - EDPE A438 Methods of Teaching Adapting Instruction in Health, Outdoor, and Physical Education 3
   - ED A410 Language and Cognition 4

C. Methods classes as approved by advisor (15-21 credits) 15-21

D. Complete one of the following emphases:
   **Teacher Certification Emphasis**
   Complete the following courses (21 credits):
   - EDPE A430 Fieldwork in Health, Outdoor, and Physical Education 3
   - EDPE A431 Methods of Teaching Physical Education 3
   - EDPE A437 Methods of Teaching School Health Education 3
   - EDPE A452 Student Teaching - Physical Education 12

   **Health Education Emphasis**
   Complete the following courses (21 credits):
   - DN A203 Normal Nutrition 3
   - EDPE A339 Wellness Education for Students with Disabilities 3
   - EDPE A347 Personal Wellness: A Secondary Physical Education 3
   - EDPE A432 Classroom Teaching of Health Enhancement 3
   - 9 credits by advisement 9

   **Adventure/Outdoor Education Emphasis**
   Complete the following courses (21 credits):
   - AOEE A163 Wilderness First Responder 4
   - AOEE A206 Wilderness Leadership 3
   - EDPE A320 Environmental Education 3
   - EDPE A495 Outdoor Education Leadership Practicum 3-6
   - 5-8 credits by advisement

   **Exercise/Sport Leadership Emphasis**
   Complete the following courses (21 credits):
   - EDPE A337 Introduction to Sports Medicine 3
   - EDPE A434 Advanced Exercise Physiology 3
   - EDPE A442 Exercise and Aging 3
   - 12 credits by advisement 12

E. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.

**BACHELOR OF EDUCATION WITHOUT TEACHER CERTIFICATION**
Students who wish to receive the Bachelor of Education without teacher certification may substitute 12 credits of general course work approved by the School of Education in lieu of student teaching requirements.

**MINOR, EDUCATION**

**MINOR, PHYSICAL EDUCATION**
The following minors are available for students outside the School of Education. A minimum of 18 credits is required for a minor, at least 6 of which must be upper-division.

A. Non-Certification Minor in Education (18 credits):
   - ED A201 Introduction to Education 2
   - ED A321 Instruction and Assessment 3
   - ED A423 Philosophical Foundations of Education 3
   - EDSE A312 Human Development and Learning 3
   - EDSE A336 Classroom Management and Collaboration 3
   - Education electives by advisement 4
Exercise/Sport Leadership Emphasis (23 credits):

EDPE A175 Orientation to Health, Outdoor, and Physical Education 2
EDPE A337 Introduction to Sports Medicine 3
EDPE A434 Advanced Exercise Physiology 3
EDPE A442 Exercise and Aging 3
12 credits by advisement 12

Exercise/Sport Leadership Emphasis (23 credits):

EDPE A175 Orientation to Health, Outdoor, and Physical Education 2
EDPE A337 Introduction to Sports Medicine 3
EDPE A434 Advanced Exercise Physiology 3
EDPE A442 Exercise and Aging 3
12 credits by advisement 12

FACULTY

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Gretchen Owocki, Assistant Professor

ASSOCIATE OF APPLIED SCIENCE, NURSING

Graduates of the Associate of Applied Science, Nursing program are prepared to use the nursing process to provide effective nursing services to individuals receiving care in inpatient settings and in structured outpatient settings. The academic program provides students with a closely related mix of theory and clinical practice; students gain experience in hospitals, nursing homes, clinics, and community agencies.

ADMISSION REQUIREMENTS

Students may complete the Associate of Applied Science, Nursing program in two academic years (four semesters); admission to the clinical sequence is determined by a ranking process, admission requirements must be completed prior to February 1 (see items 1-6 below). Students are encouraged to submit application to the University by August to ensure complete processing of application and transcript evaluation by February 1. Students are encouraged to complete co-requisite courses while waiting for admission to the clinical sequence.

In order to have a student file ranked for possible admission to the nursing sequence, the following items must be completed no later than February 1:

1. UAA Certificate of Admission from Enrollment Services, including transcripts from both high school/GED and college, with transcript evaluations (if any). Documentation from transcripts must show successful completion of the following courses with grades of 2.00 “C” or above: Algebra, Biology with laboratory, and Chemistry with laboratory. Courses may have been taken at the high school or college-level. Equivalent college-level courses in lieu of high school are: MATH A055, BIOL A102 and BIOL A103, CHEM A055.
2. Student attends an advising session with the Coordinator of Student Affairs, School of Nursing and Health Sciences, (call (907) 786-4560 for pre-recorded message).

3. School of Nursing and Health Sciences Application and Confidential Required Information form sent to the Coordinator of Student Affairs, School of Nursing and Health Sciences.

4. Three letters of reference sent to the Coordinator of Student Affairs, School of Nursing and Health Sciences.

5. Upon completion of items 1-4, student has an interview with a member of the AAS Admissions Committee.

6. Take the Nurse Entrance Test (NET) through Advising and Counseling (call (907) 786-4500 for specific dates and to sign up).

7. Upon completion of items 1-6, student’s file is ranked based on a point system. Please contact department for further details. Students will be contacted in March with the results.

Once admitted to associate degree clinical nursing courses, students will be required to provide the following before actually beginning clinical course work:

1. Evidence of:
   a) immunity to rubella and rubeola, confirmed by titer;
   b) immunity to Hepatitis A and Hepatitis B, confirmed by titer (first semester clinical students may be in the process of completing the immunization series; for those students, documentation of immunity by titer is required prior to entry into second year courses);
   c) immunity to chicken pox documented by history, titer or current immunization;
   d) diphtheria/tetanus vaccination within the past ten years (with booster required at the time of expiration);
   e) freedom from active tuberculosis, documented annually by negative PPD skin test or by health exam by a nurse practitioner, physician, or physician’s assistant;
   f) documentation of HIV testing annually (results not required).

2. Current Health Provider Certification in Cardiopulmonary Resuscitation for infant children and adults. First year students will have until the 3rd week of the semester to complete this certification which then must be kept current until graduation.

3. Professional liability insurance in the amount of $1 million/$3 million; insurance must be maintained throughout the duration of the student’s enrollment in clinical nursing courses. Specific information regarding acceptable professional liability insurance policies may be obtained directly from the Program.

Students enrolled in clinical courses must provide their own transportation to clinical assignments and will be required to purchase uniforms and specialized equipment. The School assumes no responsibility for illnesses and injuries experienced by students in conjunction with their clinical experiences; students who are injured while completing clinical assignments are responsible for all associated medical costs. It is strongly recommended that students maintain personal medical insurance.

**ACADEMIC PROGRESS**

In order to progress within the Associate of Applied Science, Nursing program, students must earn a satisfactory grade (C or higher) in all nursing and health sciences courses. Students who are unable to earn an acceptable grade in a nursing or health sciences course during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space available basis. Students enrolled in one course must be concurrently enrolled in all courses with that common number (NURS A120 and NURS A120L; NURS A125 and NURS A125L; NURS A220 and NURS A220L; NURS A222 and NURS A222L; NURS A225 and NURS A225L; NURS A250 and NURS A250L).

The four semester clinical course sequence, which begins with NURS A120/120L must be completed within four years.

**GENERAL UNIVERSITY REQUIREMENTS**

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.

2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter. At least 3 of the 6 credits of general requirements must be a social science course.

**MAJOR REQUIREMENTS**

1. Complete the following required courses:
   - BIOLA111 Human Anatomy and Physiology I 4
   - BIOLA112 Human Anatomy and Physiology II 4
   - BIOLA240 Introductory Microbiology for Health Sciences 4
   - DN A203 Normal Nutrition 3
   - NURS A120 Nursing Fundamentals 3
   - NURS A120L Nursing Fundamentals Lab 4
   - NURS A125 Adult Nursing I 3
   - NURS A125L Adult Nursing I Lab 4
   - NURS A180 Basic Nursing Pharmacology 3
   - NURS A220 Perinatal Nursing 2
   - NURS A220L Perinatal Nursing Lab 2
   - NURS A221 Advanced Parenteral Therapy Lab 1
   - NURS A222 Pediatric Nursing 2
   - NURS A222L Pediatric Nursing Lab 2
   - NURS A225 Adult Nursing II 3
   - NURS A225L Adult Nursing II Lab 3
   - NURS A250 Psychiatric Nursing 2
   - NURS A250L Psychiatric Nursing Lab 2
   - NURS A255 Staff Nurse: Legal, Ethical, and Organizational Issues 1
   - PSYA150 Human Development 3

2. A total of 70 credits is required for the degree.
### RECOMMENDED COURSE SEQUENCE

#### Fall Semester
- **NURS A120/L**: Nursing Fundamentals/Lab 7
- **ENGL A111**: Methods of Written Communication 3
- **BIOL A111**: Anatomy and Physiology 4
- **PSY A150**: Human Development 3

#### Spring Semester
- **NURS A125/L**: Adult Nursing I/Lab 7
- **NURS A180**: Basic Nursing Pharmacology 3
- **BIOL A112**: Anatomy and Physiology 4
- **BIOL A240**: Microbiology 4

#### Fall Semester
- **NURS A220/L**: Perinatal Nursing/Lab 4
- **NURS A221**: Advanced Parenteral Therapy Lab 1
- **NURS A222/L**: Pediatric Nursing 4
- **DN A203**: Normal Nutrition 3
- **ENGL A211, 212, or 213 (Written Communication)** 3
- **Social Science General Education Requirement** 3

#### Spring Semester
- **NURS A225/L**: Adult Nursing II/Lab 6
- **NURS A250/L**: Psychiatric Nursing/Lab 4
- **NURS A255**: The Staff Nurse 1
- **Oral Communication** 3
- **General Education Requirement** 3

### ASSOCIATE OF APPLIED SCIENCE, NURSING

#### LICENSED PRACTICAL NURSE OPTION

Licensed Practical Nurses may complete the AAS Nursing Program in three semesters. Admission to the clinical sequence is selective and determined by a ranking process. Students are encouraged to complete co-requisite courses while waiting to qualify for admission to the clinical sequence.

### ADMISSION REQUIREMENTS

Student files entered into the admission ranking process must include documentation of the following by February 1st:

1. **UAACertificate of Admission from Enrollment Services**, including high school transcripts or GED certificate and transcripts of all college work, together with UAATranscript evaluations (if needed). Transcripts must provide evidence of completion of the following courses at the high school or college level with grades of “C” (2.00) or higher: Algebra, Biology with laboratory, and Chemistry with laboratory. Students may use courses equivalent to the following UAACourses in lieu of work at the high school level: MATH 055 (Algebra), BIOL A102 and A103 (Biology) and CHEM A055 (Chemistry).

2. Successful completion of or concurrent enrollment in the following college courses or their equivalents:
   a) **BIOL A111 Anatomy and Physiology I**
   b) **ENGL A111 Methods of Written Communication**
   c) **PSY A150 Human Development**

3. Current active Alaska LPN license.

4. Completed School of Nursing Application and Confidential Information form (sent to the Coordinator of Student Affairs, School of Nursing).

5. Three letters of references mailed directly to the Coordinator of Student Affairs, School of Nursing.

6. Interview with a member of the AAS Admissions Committee (scheduled after items 1-5 above are completed).

When items 1-6 are completed, the student’s file will be entered into the ranking process; further details about the ranking process may be obtained directly from the AAS Nursing Program. Students will be notified of the results of the ranking process by March 30th. Once admitted to the associate degree clinical courses, students will be required to provide documentation of health, CPR, and liability insurance before actually beginning clinical course work.
Requirements marked with an asterisk (*) are considered valid only if the expiration date does not occur prior to the end of the semester):

1. Evidence of:
   a. immunity to rubella and rubeola, confirmed by titer;
   b. immunity to Hepatitis A and Hepatitis B, confirmed by titer (first semester clinical students may be in the process of completing the immunization series; for those students, documentation of immunity by titer is required prior to entry into second year courses);
   c. immunity to chicken pox documented by history, titer or current immunization;
   d. diphtheria/tetanus vaccination within the past ten years (with booster required at the time of expiration);
   e. freedom from active tuberculosis, documented annually by negative PPD skin test or by health exam by a nurse practitioner, physician, or physician’s assistant;*
   f. documentation of HIV testing annually (results not required).

2. Current Health Provider certification in Cardiopulmonary Resuscitation for infants, children, and adults (information regarding acceptable courses may be obtained from the department).*

3. Professional liability insurance in the amount of $1 million/$3 million; insurance must be maintained throughout the duration of the student’s enrollment in clinical nursing courses. Specific information regarding acceptable professional liability insurance policies may be obtained directly from the Program.*

Students enrolled in clinical courses must provide their own transportation to clinical assignments and will be required to purchase uniforms and specialized equipment. The School assumes no responsibility for illnesses and injuries experienced by students in conjunction with their clinical experiences; students who are injured while completing clinical assignments are responsible for all associated medical costs. It is strongly recommended that students maintain personal medical insurance.

**GENERAL UNIVERSITY REQUIREMENTS**

1. Complete the General University Requirements for Associate Degrees.

2. Complete the Associate of Applied Sciences requirements (15 credits). At least 3 of the 6 credits of general requirements must be earned in a social science course.

**MAJOR REQUIREMENTS**

Within the LPN Option, licensed practical nurse students returning to school to complete the AAS degree in nursing may select either the LPN Challenge Examination track or the LPN Transition track.

**LPN Challenge Examination Track**: This track enables LPN’s to receive university credit for previously learned knowledge and skills through an examination process.

1. Complete the following support courses:
   - BIOLA111 Human Anatomy & Physiology I 4
   - BIOLA112 Human Anatomy & Physiology II 4
   - BIOLA240 Introductory Microbiology for Health Sciences 4
   - DN A203 Normal Nutrition 3
   - PSYA150 Human Development 3

2. Earn credit in the following courses by exam:
   - NURS A120 Nursing Fundamentals 3
   - NURS A120L Nursing Fundamentals Lab 4

3. Complete the following courses by exam or enrollment (* indicates those courses in which exam for credit is available)
   - NURS A125 Adult Nursing I 3
   - NURS A125L Adult Nursing I Lab 4
   - NURS A180 Basic Nursing Pharmacology 3
   - NURS A220 Perinatal Nursing 2
   - NURS A220L Pediatric Nursing Laboratory 2
   - NURS A221 Advanced Parenteral Therapy Lab 1
   - NURS A222 Pediatric Nursing 2
   - NURS A222L Pediatric Nursing Lab 2
   - NURS A225 Adult Nursing II 3
   - NURS A225L Adult Nursing II Lab 3
   - NURS A250 Psychiatric Nursing 2
   - NURS A250L Psychiatric Nursing Lab 2
   - NURS A255 Staff Nurse: Legal, Ethical, and Organizational Issues 1

A total of 70 credits is required for the degree.

**LPN Role Transition Track**: This track enables LPN students to build upon previously acquired knowledge and skills through completion of a variety of structured learning experiences in classroom, clinical, and laboratory settings.

1. Complete the following required courses:
   - BIOLA111 Human Anatomy & Physiology I 4
   - BIOLA112 Human Anatomy & Physiology II 4
   - BIOLA240 Introductory Microbiology for Health Sciences 4
   - DN A203 Normal Nutrition 3
   - PSYA150 Human Development 3
   - NURS A150 Nursing Role Transition for LPN 8
   - NURS A180 Basic Nursing Pharmacology 3
   - NURS A220 Perinatal Nursing 2
   - NURS A220L Perinatal Nursing Lab 2
   - NURS A221 Advanced Parenteral Therapy Lab 1
   - NURS A222 Pediatric Nursing 2
   - NURS A222L Pediatric Nursing Lab 2
   - NURS A225 Adult Nursing II 3
   - NURS A225L Adult Nursing II Lab 3
   - NURS A250 Psychiatric Nursing 2
   - NURS A250L Psychiatric Nursing Lab 2
   - NURS A255 Staff Nurse: Legal, Ethical, and Organizational Issues 1

2. Complete electives to total 70 credits. 6

A total of 70 credits is required for the degree.
BACHELOR OF SCIENCE, NURSING SCIENCE

Students pursuing the baccalaureate degree in nursing science are provided both the theory and clinical base to enable them to assess plan, implement, and evaluate health care to meet the needs of individuals, families, groups, and communities whose health status varies qualitatively and quantitatively.

Students working on a degree in Nursing Science may choose from two options: the Basic Student Option and the Registered Nurse Option. Within the RN Option, registered nurses returning to complete the baccalaureate degree in nursing science may select either the RN Challenge Exam track or the RN Prior College Credit track.

BASIC STUDENT OPTION

ADMISSION REQUIREMENTS

Students who apply to the baccalaureate nursing major and who qualify for admission to baccalaureate nursing majors are admitted as pre-nursing majors. Admission as a pre-nursing major does not guarantee admission to the Nursing program. There are a limited number of seats available in each nursing course. Students must apply for admission to the nursing major during the semester in which they are completing the final prerequisites for the first nursing courses (see #6 below). Applications must be submitted prior to October 1 in the fall semester and February 1 in the spring semester. The School of Nursing strongly recommends that students submit their University application up to six months prior to the School of Nursing deadlines to ensure complete processing of the application and transcript evaluation. The process for advancement to the major and the formal admission to the Nursing program are:

1. UAACertificate of Admission and transcript evaluations (if any) from Enrollment Services.
2. Advising sessions with Coordinator of Student Affairs. The student attends a group advising session (call (907) 786-4560 for pre-recorded information on group advising session).
3. An extracted minimum grade point average of 2.70 for courses required for the Bachelor of Science, Nursing Science. The GPA will be calculated using grades from all courses required for the nursing major and completed at the time of Application to the Nursing Major.
4. A grade of "C" or higher in all specified courses required for the nursing major.
5. Completion of specified prerequisite courses (36 credits):
   - BIOLA111 and A112
   - CHEM A103 and A104
   - ENGL111 and A213
   - ENGL120, PHILA101, PHILA201, or PSYA150
   - Oral Communication Requirement
   - General Education Requirement
   - PSY or SOC General Education Course
   For students not required to take ENGL111, a 200-level English composition course will be substituted. For transfer students, grades from equivalent courses will be substituted.
6. Enrollment in, or credit for,
   - BIOLA240
   - PSYA150 or one of the following:
     - ENGL120, PHILA101, or PHILA201
     - ANTH or ECON General Education Requirement
   - General Education Requirement
7. Application to the Baccalaureate Nursing Major. After completion of the first semester or 36 credits, as outlined above in #5, and during enrollment in courses outlined in #6, the student meets with the Coordinator of Student Affairs to verify course completion and GPA and completes the Application to the Nursing Major. The student may call (907) 786-4550 to set up an appointment.
8. School of Nursing Application and Confidential Required Information form on file in the School.
10. A current Plan of Study signed by the Coordinator of Student Affairs on file with the School of Nursing.
11. After completion of all the above steps, the student’s file is forwarded to the School’s Admissions Committee for acceptance into the Nursing Major. Formal admission to the Nursing program is based on the student’s relative standing on the minimum requirements as outlined above. There are two deadlines for consideration by the Committee: October 1 in the fall semester and February 1 in the spring semester.
12. Achievement of a "C" or higher in the specified courses for the major that are in progress when admission is sought (i.e., PSY A150, BIOLA240), and maintenance of a minimum 2.70 GPA until the semester of enrollment in beginning nursing courses (NS A200, A201, A202 and NS A216).

CLINICAL REQUIREMENTS

All students who are admitted to clinical nursing courses are required to provide copies of documentation of health, CPR and personal liability insurance prior to beginning those courses. Requirements marked with an asterisk (*) are considered valid only if the expiration date does not occur prior to the end of the semester of current enrollment:

1. Evidence of:
   a. immunity to rubella and rubeola confirmed by titer;
   b. immunity to Hepatitis A and Hepatitis B confirmed by titer (first semester clinical students may be in the process of completing the immunization series, for those student, documentation of immunity by titer is required prior to entry into second year courses);
   c. diphtheria/tetanus vaccination within the last ten years (booster required at time of expiration);
   d. freedom from active tuberculosis, documented annually by negative PPD skin test or by health exam by a nurse practitioner, physician, or physician’s assistant.*
   e. immunity to chicken pox confirmed by health history, titer, or immunization;
   f. documentation of having had a test for HIV annually (results not required).
2. Current Health Provider certification in Cardiopulmonary Resuscitation for infants, children and adults (information regarding acceptable courses may be obtained from the department).*
3. Professional liability insurance in the amount of $1 million/$3 million; insurance must be maintained throughout the duration of the student’s enrollment in clinical nursing courses. (Specific information regarding acceptable professional liability insurance policies may be obtained directly from the Program).*

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Students enrolled in clinical courses must provide their own transportation to clinical assignments and will be required to purchase uniforms and specialized equipment. The School assumes no responsibility for illnesses and injuries experienced by students in conjunction with their clinical experiences; students who are injured while completing clinical assignments are responsible for all associated medical costs. It is strongly recommended that students maintain personal medical insurance.

**ACADEMIC PROGRESS**

In order to progress within the baccalaureate nursing program, students must earn a satisfactory grade (C or higher or P) in all nursing courses.

Re-Enrollment: Students who are unable to earn an acceptable grade in a nursing course during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space available basis.

Concurrent Enrollment: Students enrolled in one course must be concurrently enrolled in all courses with that common number (NS A305, NS A305L; NS A313, NS A313L, NS A313S; NS A315, NS A315L, NS A315S; NS A401, NS A401L, NS A401S; NS A402, NS A402L, NS A402S; NSA403, NS A403L; NS A404, NS A404L; NS A406, NS A406L; NS A407, NSA407L; NS A410, NSA410L; NS A416, NS A416L).

Basic Student Option Progress: The four semester clinical sequence must be completed in seven semesters and no more than a one semester delay between sequential clinical courses will be permitted without validation of continued competence and currency.

**GRADUATION REQUIREMENTS**

Students must complete the following graduation requirements:

**A. GENERAL UNIVERSITY REQUIREMENTS**

Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

**B. GENERAL EDUCATION REQUIREMENTS**

Complete the baccalaureate general education requirements listed at the beginning of this chapter. In the Nursing program, some required prerequisite courses fulfill general education requirements.

**C. MAJOR REQUIREMENTS**

1. **Support courses**: Complete support courses for the Nursing Science major (44 credits). Courses marked with an asterisk (*) must be completed prior to admission to clinical nursing courses:

   - AS A252 Elementary Statistics (3)
   - AS A307 Probability and Statistics (3)
   - *BIOILA111 Human Anatomy and Physiology I (4)
   - *BIOILA112 Human Anatomy and Physiology II (4)
   - *BIOILA240 Introductory Microbiology for Health Sciences (4)
   - *CHEMA103/L Survey of Chemistry (4)
   - *CHEMA104/L Introduction to Organic Chemistry and Biochemistry (4)
   - PSYA150** Human Development (3)
   - *Reasoning Skills:**
     - ENGLA120, or PHILA101, or PHILA201
     - DN A203 Normal Nutrition (3)
     - ENGLA213 Writing in the Social and Natural Sciences (3)
     - PHILA302 Biomedical Ethics (3)
     - PSY or SOC General Education Course (3)
     - **ANTH or ECON General Education Requirement (3)

   **Must be in addition to the required General Education Requirements.

2. **Nursing Courses**: Complete required nursing courses for the Nursing Science major (64 credits) Courses marked with an asterisk (*) must be completed prior to admission to clinical nursing courses:

   - NS A200 Information Technology
   - NS A201 Computer Mediated Communication
   - NS A202 Practice Technology
   - NS A216 Pathophysiology
   - NS A300 Foundations of Nursing I
   - NS A303 Foundations of Nursing II
   - NS A304 Foundations of Nursing III
   - NS A309 Pharmacology in Nursing
   - NS A313 Health Disruptions I
   - NS A313L Health Disruptions I Lab
   - NS A313S Health Disruptions I Seminar
   - NS A315 Health I: Nursing Therapeutics
   - NS A315L Health I: Nursing Therapeutics Lab
   - NS A315S Health I: Nursing Therapeutics Seminar
   - NS A318 Professional and Legal Perspectives in Nursing
   - NS A319 Research in Nursing
   - NS A401 Health Disruptions II
   - NS A401L Health Disruptions II Lab
   - NS A401S Health Disruptions II Seminar
   - NS A402 Health II: Nursing Therapeutics
   - NS A402L Health II: Nursing Therapeutics Lab
   - NS A402S Health II: Nursing Therapeutics Seminar
   - NS A406 Complex Care
   - NS A406L Complex Care Lab
   - NS A415 Nursing Management
   - NS A416 Concentration in Clinical Nursing
   - NS A416L Concentration in Clinical Nursing Lab
   - Nursing elective (upper-division)

3. A total of 126 credits is required for the degree; 42 credits must be upper-division.
### RECOMMENDED COURSE SEQUENCE

**Semester I Pre-major**
- ENGLA111 Methods of Written Communication
- Oral Communication
- BIOLA111 Anatomy and Physiology I
- CHEM A103/LSurvey of Chemistry/Lab
- Psychology or Sociology

**Semester II Pre-major**
- ENGLA213 Writing in the Social and Natural Sciences
- BIOLA112 Anatomy and Physiology II
- CHEM A104/LOrganic and biochemistry
- PHILA101, A201, OR ENGLA120
- Social Science (GER)

### Second Year

**Fall**
- BIOLA240 Introductory Microbiology for Health Sciences
- PSYA150 Human Development
- Anthropology or Economics (GER)
- Fine Arts (GER)
- Humanities (GER)

**Spring**
- NS A200 Information Technology
- NS A201 Computer Mediated Communication
- NS A202 Practice Technology
- NS A216 Pathophysiology
- AS A252 Elementary Statistics
- DN A203 Normal Nutrition
- Humanities (GER)

### Third Year

**Fall**
- NS A300 Foundations of Nursing I
- NS A303 Foundations of Nursing II
- NS A304 Foundations of Nursing III
- NS A309 Pharmacology in Nursing
- NS A318 Professional and Legal Perspectives in Nursing

**Spring**
- NS A313 Health Disruptions I
- NS A313L Health Disruptions I Lab
- NS A313S Health Disruptions I Seminar
- NS A315 Health I: Nursing Therapeutics
- NS A315L Health I: Nursing Therapeutics Lab
- NS A315S Health I: Nursing Therapeutics Seminar
- PHILA302 Biomedical Ethics or Research in Nursing

### Fourth Year

**Fall**
- NS A401 Health Disruptions II
- NS A401L Health Disruptions II Lab
- NS A401S Health Disruptions II Seminar
- NS A402 Health II: Nursing Therapeutics
- NS A402L Health II: Nursing Therapeutics Lab
- NS A402S Health II: Nursing Therapeutics Seminar
- PHILA302 Biomedical Ethics or Research in Nursing

**Spring**
- NSA406 Complex Care
- NSA406L Complex Care Lab
- NSA415 Nursing Management
- NS A416 Concentration in Clinical Nursing
- NS A416L Concentration in Clinical Nursing Lab
- NS Elective

### REGISTERED NURSE OPTION

For students who hold current licensure as a Registered Professional Nurse in the State of Alaska, the School offers “RN-only” courses and sections within the nursing major designed to build upon the RN’s basic preparation and experience and to facilitate progress in meeting program objectives through credit by examination or prior college credit and clinical course work. Students attempting to earn credit by examination are evaluated on both theoretical and clinical competency. Previous college credits are evaluated for comparability to established requirements within the program and may be accepted for transfer; in addition, credit by examination is available to satisfy some General Education Requirements. Additional information is available upon request.

### ADMISSION REQUIREMENTS

Registered nurses returning to complete the baccalaureate degree in nursing science must successfully complete the same academic prerequisites as basic students. Students who apply to the baccalaureate nursing major and who qualify for admission to baccalaureate study are admitted as pre-nursing majors. Admission as a pre-nursing major does not guarantee admission to the Nursing program. Registered Nurses must apply for admission to the nursing major during the semester in which they are completing the final prerequisites for the first RN course, NS A302. The deadline for RN admission is once a year in the fall semester by October 1. Formal admission to the Nursing program is based on the Registered Nurse’s relative standing on the following minimum requirements:

1. UAACertificate of Admission and transcript evaluations from Enrollment Services.
2. Current licensure as a Registered Professional Nurse in the State of Alaska. Copy of licensure on file with the School.
3. A current Plan of Study signed by a Nursing advisor and the RN student on file with the School of Nursing and Health Sciences. The student may call (907) 786-4550 to set up an advising session.
4. An extracted minimum grade point average of 2.00. The grade point average will be calculated using grades from all courses which are required for the nursing major that have been completed at the time of application to the major.
5. A grade of “C” or better in all specified courses required for the nursing major.
6. Completion of or credit for specified prerequisite courses (17 credits):
   - BIOLA111
   - CHEM A103/L
   - ENGLA111
   - COMM A111, ENGLA120, PHILA101, PHILA201, or PSYA150
   - General Education Requirement

For students not required to take ENGLA111, a 200-level English composition course will be substituted. For transfer students, grades from equivalent courses will be substituted.
7. Enrollment in, or credit for,
   BIOLA112 4
   CHEM A104/L 4
   ENGLA120, PHILA101, or PHILA201 3
   ENGLA211, A212, or A213 3
   at the time of application to the major, on achieving a “C” in the specified courses for the major that are in progress when admission is sought (i.e., CHEM A104/L, BIOLA112), and on maintaining a minimum 2.00 grade point average until beginning nursing courses.

8. A School of Nursing and Health Sciences application on file in the School.

9. Three letters of reference, one of which must be a professional reference.

Registered Nurse students not formally admitted by UAA as a baccalaureate seeking student in the Nursing program or admitted as pre-nursing majors are eligible to take the following courses:

- NS A216 Pathophysiology 4
- NS A305/305L Health Assessment of Individuals/Lab 3
- NS A309 Pharmacology in Nursing 3
- NS A331 Current Issues and Trends in Maternal-Child Nursing (RN Prior College Credit track only) 2
- NS A414 Ethical, Legal, and Professional Issues in Nursing 4
- Nursing electives for which prerequisites have been met 6

**RN Clinical Requirements**

See Clinical Requirements under the Basic Student Option.

**RN Academic Progress**

See Academic Progress under the Basic Student Option.

**Graduation Requirements**

Students must complete the following graduation requirements:

**A. General University Requirements**

Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

**B. General Education Requirements**

Complete the baccalaureate general education requirements listed at the beginning of this chapter. In the Nursing program, some required prerequisite courses fulfill general education requirements.

**C. Major Requirements**

Within the RN Option, registered nurses returning to complete the baccalaureate degree in nursing science may select either the RN Challenge Exam track or the RN Prior College Credit track.

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**RN Challenge Exam Track**

This track offers challenge examinations to enable the RN student to receive university credit for previously learned knowledge and skills.

1. **Support Courses:** Complete support courses for the Nursing Science major (36 credits). All support courses must be completed prior to admission to 400-level clinical nursing courses:

   - AS A252 Elementary Statistics (3) 3
   - AS A307 Probability and Statistics (3) 4
   - BIOLA111 Human Anatomy and Physiology I 4
   - BIOLA112 Human Anatomy and Physiology II 4
   - BIOLA240 Introductory Microbiology for Health Sciences 4
   - CHEM A103/LSurvey of Chemistry/Lab 4
   - CHEM A104/L Introduction to Organic Chemistry and Biochemistry/Lab 4
   - PSYA150* Human Development 3
   - Reasoning Skills:* 3
   - ENGLA120, or PHILA101, or PHILA201 3
   - DN A203 Normal Nutrition 3
   - NS A216 Pathophysiology (Exam for Credit available) 4

   *Must be in addition to the required General Education Requirements.

2. **Challenge exams:** Complete the following required courses for the Nursing Science major (25 credits) by taking the course or by passing an examination for credit. The following challenge exams may be taken twice. If unsuccessful after two tries, the corresponding course must be taken for academic credit. All challenge exams must be completed prior to admission to 400-level clinical nursing courses:

   - NS A306 Fundamentals of Nursing 2
   - NS A306L Fundamentals of Nursing Lab 2
   - NS A310 Medical Surgical Nursing 3
   - NS A310L Medical Surgical Nursing Lab 4
   - NS A311 Nursing the Childbearing Family 2
   - NS A311L Nursing the Childbearing Family Lab 2
   - NS A312 Nursing the Childrearing Family 2
   - NS A312L Nursing the Childrearing Family Lab 2
   - NS A407 Advanced Medical Surgical Nursing 1.5
   - NS A407L Advanced Medical Surgical Nursing Lab 1.5
   - NS A409 Psychiatric-Mental Health Nursing I (Exam for Credit Only) 3

3. **Nursing courses for academic credit:** Complete the following required nursing courses within the Nursing Science major (35 credits). Courses marked with an asterisk (*) must be completed prior to admission to 400-level clinical nursing courses (i.e., NS A405/A405L, NS A404/A404L, NS A410/A410L):

   - *NS A302 Processes of Professional Nursing for RN’s 3
   - *NS A305 Health Assessment of Individuals 2
   - *NS A305L Health Assessment of Individuals Lab 1
   - *NS A309 Pharmacology in Nursing (Exam for Credit available) 3
   - *NS A319 Research in Nursing 3
   - NS A403 Community Nursing I 2
   - NS A403L Community Nursing I Lab 2
   - NS A404 Community Nursing II 1
   - NS A404L Community Nursing II Lab 2
   - NS A410 Psychiatric/Mental Health Nursing II 2
   - NS A410L Psychiatric/Mental Health Nursing II Lab 1
   - NS A414 Ethical, Legal and Professional Issues in Nursing 4
   - NS A417 Management in Nursing 3
   - Nursing electives (upper-division) 6

4. Complete elective credits to total 126 credits.

5. A total of 126 credits is required for the degree, 42 credits of which must be upper-division.
RN Prior College Credit Track

This track offers utilization of prior college degree credit to fulfill 26 elective credits, for which the RN student may use Associate Degree Nursing lower-division credits.

1. **Support courses**: Complete support courses for the Nursing Science major (36 credits). All support courses must be completed prior to admission to clinical nursing courses:
   - AS A252: Elementary Statistics (3) **or** AS A307: Probability and Statistics (3)
   - BIOLA111: Human Anatomy and Physiology I (4)
   - BIOLA112: Human Anatomy and Physiology II (4)
   - BIOLA240: Introductory Microbiology for Health Sciences (4)
   - CHEM A103/L: Survey of Chemistry/Lab (4)
   - CHEM A104/L: Introduction to Organic Chemistry and Biochemistry/Lab (4)
   - PSYA150*: Human Development (3)
   - ENGLA120, or PHILA101, or PHILA201
   - DN A203: Normal Nutrition (3)
   - NS A216: Pathophysiology (4)

   *Must be in addition to the required General Education Requirements.

2. **Nursing courses for academic credit**: Complete the following required courses for the Nursing Science major (40 credits). Courses marked with an asterisk (*) must be completed prior to admission to 400-level clinical nursing courses (i.e., NS A403/A403L, NS A404/A404L, NS A410/A410L):
   - *NS A302: Processes of Professional Nursing for RN’s (3)
   - *NS A305: Health Assessment of Individuals (2)
   - *NS A305L: Health Assessment of Individuals Lab (1)
   - *NS A309: Pharmacology in Nursing (Exam for Credit available) (3)
   - *NS A319: Research in Nursing (3)
   - *NS A331: Current Issues and Trends in Maternal-Child Nursing (2)
   - NS A403: Community Nursing I (2)
   - NS A403L: Community Nursing I Lab (2)
   - NS A404: Community Nursing II (1)
   - NS A404L: Community Nursing II Lab (2)
   - NS A407: Advanced Medical Surgical Nursing (1.5)
   - NS A407L: Advanced Medical Surgical Nursing Lab (1.5)
   - NS A410: Psychiatric/Mental Health Nursing II (2)
   - NS A410L: Psychiatric/Mental Health Nursing II Lab (1)
   - NS A414: Ethical, Legal and Professional Issues in Nursing (4)
   - NS A417: Management in Nursing (3)

3. Complete elective credits to total 126 credits.

4. A total of 126 credits is required for the degree, 42 credits of which must be upper-division.

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**MINOR, ADDICTION STUDIES**

The Addiction Studies Minor, coordinated by the Center for Alcohol and Addiction Studies, provides students with the opportunity to gain knowledge about the process and effects of addictive behaviors, and their treatment. By providing students with contemporary information, and an opportunity to select from an array of courses that meet their professional interests and goals, the minor prepares students for entry-level positions in treatment programs, substance abuse agencies, or for graduate study in this or related areas. The minor also enhances the capabilities of students in human service fields, such as social work, human services, nursing, justice, and psychology, to acquire knowledge about substance abuse, a major factor in many human dilemmas. Course work may also apply toward certification from the State of Alaska as a substance abuse counselor. Please note that additional course work and practicum hours may be required for this certification.

The Addiction Studies minor requires a total of 18 credits, of which a minimum of nine must be upper-division.

1. Complete the following required courses:
   - HUMS A122: Substance Abuse as a Contemporary Problem (3)
   - HS/PSYA350: Drugs and Drug-Taking Behavior (3)

2. Complete 12 credits from the following:
   - HS/PSYA480: Contemporary Issues in Addiction Studies (1-3)
   - HUMS A123: Public Education and Prevention in Substance Abuse (3)
   - JUST A110: Introduction to Justice (3)
   - NS A428: Nursing the Chemically Dependent Client (3)
   - PSYA443: Introduction to Substance Abuse and AIDS (3)
   - PSYA482: Advanced Treatment of Substance Abuse (3)
   - PSYA488: Introduction to Substance Abuse Assessment (3)
   - SWK A471: Addictions and Social Work (3)

3. A total of 18 credits is required for the minor.

**FACULTY**

*Bernard Segal, Director/Professor, Center for Alcohol and Addiction Studies, AFBO01@uaa.alaska.edu*
HUMAN SERVICES
Beatrice McDonald Building (BMB), Room 106, (907) 786-6437

The Department of Human Services offers both an Associate of Applied Science degree in Human Services preparing students for entry-level employment and a Bachelor of Human Services practitioners degree which holds as its mission, the preparation of students to work effectively in any paraprofessional counseling, and human service practice. The AAS is articulated with the baccalaureate degree in a two plus two sequence. Employing a multidisciplinary approach, the degree objective is to provide students with a conceptual and skill foundation suitable for successful Human Service practice in both urban and rural settings. Human Service practice requires multicultural understanding, respect of clients through a collaborative relationship founded upon a developmental model. Specific skill courses combined with practice are strengthened through conceptual course work in Human Services, Social Work and Psychology. The program also offers specialized areas in alcohol and substance abuse, disabilities, diversity issues or family and youth. These are coordinated with practicum placements to give students first hand experience in their desired specialty.

An important part of the program is Human Services advising. Prospective students should contact a Human Services advisor before entering the program. Students enrolled in the introductory courses will be assigned an academic advisor. Entrance into the Human Services Practicum requires the recommendation of the advisor. Contact the Human Services Department at 786-6437 for an appointment with an advisor.

ASSOCIATE OF APPLIED SCIENCE, HUMAN SERVICES
ADMISSION REQUIREMENTS
See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

GENERAL UNIVERSITY REQUIREMENTS
1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS
1. Complete the following required courses (29 credits):
   
   ANTH A200 Natives of Alaska (3) 3
   or
   ANTH A202 Cultural Anthropology (3) 3
   HUMS A101 Introduction to Human Services 3
   HUMS/SWK A106 Introduction to Social Welfare 3
   HUMS A223 Introduction to Paraprofessional Counseling I 3
   HUMS A262 Human Services Practicum I 4
   HUMS A263 Human Services Practicum II 4
   HUMS A324 Introduction to Paraprofessional Counseling II 3
   PSYA111 General Psychology 3
   PSYA150 Human Development 3

2. Complete 6 credits from one of the emphasis areas: 6
   Note: Selected courses may only be used in one emphasis area.

   General Human Services Emphasis
   Complete 6 credits from the following:
   - HUMS A150 Marriage, Divorce and Intimate Relationships in the 90’s (3)
   - HUMS/PSYA153 Human Relations (3)
   - HUMS A256 Groups and Organizations (3)
   - HUMS A350 Men and Masculinity (3)
   - PSYA245 Child Development (3)
   - PSYA261 Introduction to Experimental Psychology (4)
   - PSYA345 Psychology of Abnormal Behavior (3)
   - SOC A202 The Social Organization of Society (3)
   - SOC A242 An Introduction to Marriage, Family and Intimate Relationships (3)
   - SOC A246 Adolescence (3)
   - SOC/PSYA453 Application of Statistics to the Social Sciences (3)

   Substance Abuse Emphasis
   Complete 6 credits from the following:
   - HUMS A122 Substance Abuse as a Contemporary Problem (3)
   - HUMS A123 Public Education and Prevention in Substance Abuse (3)
   - HS/PSYA350 Drugs and Drug-Taking Behavior (3)
   - HS/PSYA381 Substance Abuse Treatment (3)
   - SWK A471 Addictions and Social Work (3)

   Family and YouthEmphasis
   Complete 6 credits from the following:
   - HUMS A150 Marriage, Divorce and Intimate Relationships in the 90’s (3)
   - HUMS A231 Applied Behavioral Analysis I (2)
   - HUMS A232 Applied Behavioral Analysis II (2)
   - HUMS A350 Men and Masculinity (3)
   - PSYA245 Child Development (3)
   - SOC A242 An Introduction to Marriage, Family and Intimate Relationships (3)
   - SOC A246 Adolescence (3)

   Disabilities Emphasis
   Complete 6 credits from the following:
   - ASLA101 Elementary Sign Language I (3)
   - ASLA102 Elementary Sign Language II (3)
   - ASLA201 Intermediate Sign Language I (3)
   - HUMS A231 Applied Behavioral Analysis I (2)
   - HUMS A232 Applied Behavioral Analysis II (2)
   - PSYA445 Strategies of Behavior Change (3)
   - PSYA455 Best Practices-Mental Health (3)

   Diversity Issues Emphasis
   Complete 6 credit from the following:
   - AKNS A101 Alaska Native Languages I (4)
   - AKNS A102 Alaska Native Languages II (4)
   - AKNS A109 Alaska Native Languages Orthography (4)
   - AKNS A201 Native Perspectives (3)
   - AKNS A492 Seminar: Cultural Knowledge of Native Elders (3)
   - ANTH A270 Cross-Cultural Perspectives on Women (3)
   - HUMS A150 Marriage, Divorce and Intimate Relationships in the 90’s (3)
   - HUMS A350 Men and Masculinity (3)
   - WS A200 Introduction to Women’s Studies (3)

3. Choose 16 credits of electives. Consultation with faculty advisor recommended.

4. A total of 60 credits is required for the degree.
RECOMMENDED COURSE SEQUENCE

First Semester
- ENGLA111  Methods of Written Communication
- COMM A111, A235, A237, or A241
- PSYA111  General Psychology
- HUMS A101  Introduction to Human Services

Second Semester
- **GER/Elective
- HUMS/SWK A106 Introduction to Social Welfare
- PSYA150  Human Development
- Major Speciality Emphasis course
- HUMS A223  Introduction to Paraprofessional Counseling I

Third Semester
- ENGLA211, A212, A213 or CIOS A262***
- ANTH A200 or A202
- Major Speciality Emphasis course
- HUMS A324  Introduction to Paraprofessional Counseling II
- HUMS A262  Human Services Practicum I

Fourth Semester
- **Elective/GER
- **Elective/GER
- **Elective/GER
- **Elective/GER
- HUMS A263  Human Services Practicum II

** 16 credits of elective is required. For students intending to pursue a Bachelor of Human Services degree after completing the Associate of Applied Science degree, we recommend taking elective that will meet GER requirements that can be applied to the BHS, BSW, BA or BS degrees. See UAA catalog for approved GER list.
***CIOS A262 does not meet the Bachelor's degree requirements.

BACHELOR OF HUMAN SERVICES

ADMISSION REQUIREMENTS
Complete the Baccalaureate Degree Programs Admissions Requirements at the beginning of this chapter. Students must complete an Associate of Applied Science, Human Services degree from an accredited institution recognized by UAA.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. MAJOR REQUIREMENTS
1. Complete the following Bachelor of Human Services core requirements (35 credits).*
   - HUMS A333  Alternative Dispute Resolution 3
   - HUMS A412  Ethical Issues in Human Services Practice 3
   - HUMS A414  Rural Treatment Strategies for Human Service Professionals 3
   - HUMS A417  Substance Abuse Counseling for Human Service Professionals 3
   - HUMS A424  Advanced Counseling for Human Service Professionals 3
   - HUMS A434  Group Facilitation for Human Service Professionals 3
   - HUMS A461  Crisis Intervention 3
   - HUMS A462  Human Services Practicum III 4
   - HUMS A463  Human Services Practicum IV 4
   - SWK A343  Human Behavior: Diversity and Discrimination 3
   - SWK A481  Case Management in Social Work Practice 3

   *Note: Can not be used in emphasis areas.

2. Complete 12 credits from one of the emphasis areas listed in the AAS.**

   **NOTE: Each Human Service degree (Associate of Applied Science and Bachelor of Human Services) requires an emphasis area. Students may complete 6 credits from each of two emphasis areas or 12 credits from one emphasis area. Selected courses may only be used in one emphasis area.

3. A total of 120 credits is required for the degree, of which 42 credits must be upper-division.
RECOMMENDED COURSE SEQUENCE

NOTE: The Bachelor of Human Services (BHS) is a two-plus-two degree. Students must complete an Associate of Applied Science degree in Human Services from UAA or an accredited institution recognized by UAA to be considered for upper-division practica courses.

First Semester
- General Education Requirement (GER) 3
- General Education Requirement (GER) 3
- HUMS A333 Alternative Dispute Resolution 3
- SWK A343 Human Behavior: Diversity and Discrimination 3
- HUMS A424 Advanced Counseling for Human Services Professionals 3

Second Semester
- General Education Requirement (GER) 3
- General Education Requirement (GER) 3
- Major Specialty Emphasis course 3
- SWK A481 Case Management in Social Work Practice 3
- HUMS A434 Group Facilitation for Human Service Professionals 3

Third Semester
- General Education Requirement (GER) 3
- Major Specialty Emphasis course 3
- HUMS A417 Substance Abuse Counseling for Human Services Professionals 3
- HUMS A461 Crisis Intervention 3
- HUMS A462 Human Services Practicum III 4

Fourth Semester
- General Education Requirement (GER) 3
- General Education Requirement (GER) 3
- HUMS A412 Ethical Issues in Human Services Practices 3
- HUMS A414 Rural Treatment Strategies for Human Services Professionals 3
- HUMS A463 Human Services Practicum IV 4

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JUSTICE

www.uaa.alaska.edu/just
College of Arts & Sciences Building (CAS), Room 306, (907) 786-1810

The Justice Center has statewide responsibility for higher education and research related to the areas of crime, law, and the administration of justice. The Center offers a baccalaureate degree program for students interested in the justice area. In addition, a Paralegal Studies Certificate is provided for qualified students who wish to pursue a paralegal career.

Justice faculty have professional research and service obligations beyond classroom teaching. The Center is an organized research unit which, at its own initiative or in response to requests from outside the university, conducts research and public education programs. Efforts are made to ensure that all undergraduate students who major in Justice have opportunities to work with faculty members on Justice Center research and service projects.

For those who wish to further their education in the justice area, the Justice Center offers a Criminal Justice emphasis in the Master of Public Administration degree. Refer to Chapter 10 for more information.

BACHELOR OF ARTS, JUSTICE

The Bachelor of Arts degree in Justice satisfies the educational prerequisites for a variety of administrative, operational, research, and planning positions related to crime and the administration of justice. Those graduates with records of high achievement in the Justice undergraduate program will be prepared to pursue advanced education in graduate and professional degree programs at the University of Alaska Anchorage and other universities.

Graduates who receive a Bachelor of Arts degree in Justice have both broad educational preparation for productive citizenship and the specialized knowledge and skills required for the evaluation, administration and improvement of police, court, and correctional policies and organizations.

ADMISSION REQUIREMENTS
Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS
Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.
C. MAJOR REQUIREMENTS

1. Complete the following required courses (52 credits):
   - AS A252 Elementary Statistics 3
   - JUST A110 Introduction to Justice 3
   - JUST A221 Justice Organization and Management 3
   - JUST A250 Development of Law 3
   - JUST A251 Criminology 3
   - JUST A330 Justice and Society 3
   - JUST A340 Justice Processes 3
   - JUST A451 Research and Policymaking 4
   - Upper-division Justice electives 15

   **Humanities electives 6
   ***Justice electives, any level 6

   **Select courses from the General Education Requirements located at the beginning of this chapter (must be in addition to the 6 credit Humanities General Education Requirement). Substitutions may be made with advisor approval.

   ***Paralegal Studies Certificate courses can be counted as Justice electives.

2. Complete a University-approved minor in another discipline. Specific requirements for minors are listed in the catalog by school or department. 18-21

3. A total of 120 credits is required for the degree of which 48 credits must be upper-division.

RECOMMENDED COURSE SEQUENCE

The Justice BA requires the completion of a minor.

First Year

   Fall
   - JUST A110 Introduction to Justice 3
   - COMM A111 Fundamentals of Oral Communications 3
   - ENGL A111 Methods of Written Communication 3
   - Humanities 3

   Spring
   - JUST A251 Criminology 3
   - ENGL A212 Technical Writing 3
   - Humanities 3
   - JUST A221 Justice Organization and Management 3

Second Year

   Fall
   - JUST A250 Development of Law 3
   - JUST Elective (any Level) 3
   - Social Sciences Sequence 3
   - Minor 3

   Spring
   - JUST A330 Justice & Society 3
   - AS A252 Elementary Statistics (required 3
   - JUST Upper Division Elective 3
   - JUST Upper Division Elective 3
   - Social Sciences 3

Third Year

   Fall
   - JUST A360 Justice Processes 3
   - JUST Upper Division Elective 3
   - JUST Upper Division Elective 3
   - Minor 3
   - Minor 3

   Spring
   - JUST A451 Research and Policy Making 4
   - JUST Upper Division Elective 3
   - Upper Division Elective 3
   - Natural Science 3
   - Natural Science 3
   - Fine Arts 3

Fourth Year

   Fall
   - Elective (any level) 3
   - Upper Division Elective 3
   - Upper Division Minor Course 3
   - Humanities 3
   - Humanities 3

   Spring
   - Elective (any level) 3
   - Elective (any level) 3
   - Upper Division Elective 3
   - Upper Division Minor Course 3
   - Natural Science 3
   - Natural Science 3

MINOR, JUSTICE

Students majoring in another subject who wish to minor in Justice must complete the following requirements. A total of 18 credits is required for the minor, 9 of which must be upper-division.

   JUST A110 Introduction to Justice 3
   JUST A251 Criminology 3
   Upper-division Justice electives 9
   Justice electives, any level 3

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PARALEGAL STUDIES

www.uaa.alaska.edu/just/
College of Arts & Sciences Building (CAS), Room 306, (907) 786-1810

CERTIFICATE, PARALEGAL STUDIES

The Paralegal Certificate Program has been approved by the American Bar Association.

PROGRAM GOALS

1. Broad-based knowledge achieved through general college education.
2. Exceptionally strong competency in critical thinking and in written and oral communication skills.
3. Comprehensive understanding of ethical responsibilities as assistants to attorneys, governed by the rules of professional responsibility.
4. Legal vocabulary and understanding of procedure required to perform paralegal duties in a civil practice.
5. Operational knowledge of the interviewing and investigatory techniques required for paralegal performance.
6. Command of skills required for both law library and computerized legal research, and for a memorandum of legal analysis
7. Knowledge of the variety of legal specialties performed by paralegals.
8. Practical experience in a law office or agency that allows students to apply classroom skills.

ADMISSION REQUIREMENTS

Students must have completed a total of six credits in ENGL A111 (or equivalent), A211, A212, A213, A311, A312, or A414 with a minimum grade of “B” in each class. Students must have a 2.00 overall GPA to be admitted to the Paralegal Studies Certificate Program. Students must apply and be admitted to the program on the Goose Lake campus (Anchorage) before completing 12 credits of the paralegal core curriculum. Special admission requirements for this certificate are enforced and certificates cannot be completed at extended campuses. Certain courses required for the certificate must be taken only at the Goose Lake campus.

Students are encouraged to complete a BA or Associate of Arts in conjunction with the Paralegal Certificate. Paralegal courses fulfill the Justice elective requirements for the Justice BA and the Applied Studies requirements for the Associate of Arts. Students who have already completed a degree at an accredited institution whose composition courses meet UAA’s written communication and program admission requirements need only complete the Paralegal core courses. Transfer credit for some core courses may be determined at the departmental level.

Students interested in the Paralegal Studies Certificate Program should consult a faculty advisor in the Justice Center before enrolling in paralegal courses.

CERTIFICATE REQUIREMENTS

1. Complete 6 credits in Written Communications (ENGLA111, A211, A212, A213, A311, A312, or A414) with a minimum grade of “B” in each class.
2. Complete the following required core courses (31 credits):
   - PARLA101 Introduction to Law 3
   - PARLA215 Paralegal Studies 3
   - PARLA235 Factual Investigation and Interviewing 2
   - PARLA236 Ethics and Paralegals 1
   - PARLA238 Civil Procedure 3
   - PARLA256 Legal Research I 3
   - PARL/JUST A352 Substantive Criminal Law (3) or PARL/JUST A354 Criminal Procedure (3)
   - PARLA362 Commercial Law (3)

   or other upper division law course from Justice curriculum with paralegal coordinator approval (3)

   - PARLA375 Litigation 3
   - PARLA456 Advanced Legal Analysis and Writing 4
   - PARLA470 Law of Government Regulation 3
   - JUST A495 Internship (1-6) 3

3. Complete at least 20 credits, in addition to the preceding courses, from the General Education Requirements for Baccalaureate Degrees list or from courses that meet the general requirements in humanities, social sciences, and math/natural sciences for the associate degree. 20
4. Complete 3 credits of any elective at the 100-level or above. 3
5. Students must achieve a minimum grade of “C” in each paralegal core course to receive the certificate. Courses may be repeated to improve grades according to University policy. 6
6. A total of 60 credits is required for the certificate.

Note: Graduates are not authorized to provide direct legal services to the public. The Paralegal Certificate Program is a training program for paralegals/legal assistants, who are authorized to perform substantive legal work under the supervision of an attorney. The program does not train lawyers or legal administrators.

RECOMMENDED COURSE SEQUENCE

Paralegal Certificate and Associate of Arts Degree

First Year

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>PARLA101 Introduction to Law</td>
<td>3</td>
<td></td>
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<tr>
<td>PARLA215 Paralegal Studies</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGLA111 Methods of Written Communication</td>
<td>3</td>
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<tr>
<td>Humanities</td>
<td>3</td>
<td></td>
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<tr>
<td>Natural Science</td>
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<tr>
<th>Spring</th>
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<tbody>
<tr>
<td>PARLA235 Factual Investigation &amp; Interviewing</td>
<td>2</td>
<td></td>
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<tr>
<td>PARLA236 Ethics &amp; Paralegals</td>
<td>1</td>
<td></td>
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<tr>
<td>PARLA238 Civil Procedure</td>
<td>3</td>
<td></td>
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<tr>
<td>ENGLA211 Academic Writing About Literature or (ENGLA212, A213, A311, A312, A414)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COMM A111 Fundamentals of Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Second Year

Fall
- PARLA256 Legal Research I 3
- PARL Elective 3
- PARLA470 Law of Government Regulations 3
- Social Science 3
- Natural Science 3

Spring
- PARLA456 Advanced Legal Analysis & Writing 4
- PARLA375 Litigation 3
- Humanities 3
- Natural Science 3
- Social Science 3

Fall, Spring or Summer Semester (6 Credits)
- JUST A495 Internship 3
- Social Science 3

RECOMMENDED COURSE SEQUENCE
Paralegal Certificate Only (Prior BA or Associate of Arts completed)

First Year

Fall
- PARLA101 Introduction to Law 3
- PARLA215 Paralegal Studies 3

Spring
- PARLA235 Factual Investigation & Interviewing 2
- PARLA236 Ethics & Paralegals 1
- PARLA238 Civil Procedure 3
- PARL Elective 3

Second Year

Fall
- PARLA256 Legal Research I 3
- PARLA470 Law of Government Regulations 3

Spring
- PARLA456 Advanced Legal Analysis & Writing 4
- PARLA375 Litigation 3

Fall, Spring or Summer Semester (3 Credits)
- JUST A495 Internship 3

FACULTY

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Nancy Schafer, Professor, AFNES@uaa.alaska.edu
Lawrence Trottle, Associate Professor, AFLCT@uaa.alaska.edu
Darryl Wood, Assistant Professor, AFDSW@uaa.alaska.edu

SOCIAL WORK

www.uaa.alaska.edu/socwork/

Classroom Building K (K), Room 218, (907) 786-6900

The educational purpose of the Bachelor of Social Work program at the University of Alaska Anchorage is to prepare graduates for beginning professional social work practice. Preparation for professional practice builds on a broad based liberal arts education accomplished through completion of General Education and major degree requirements.

Social work is a profession committed to assisting individuals, families, groups, organizations, communities and society as a whole in the improvement of the quality of life through the amelioration of social problems, equitable distribution of social resources, and client empowerment. Within an overall emphasis on client-centered problem solving, the Bachelor of Social Work degree program at University of Alaska Anchorage is guided by the following principles:

*Social work practice is based on selective use of knowledge in change efforts with human systems and social problems.
*Social work practice recognizes human diversity as a primary element.
*Social work practice is based on professional values.
*Social work practice is based on professional relationships.
*Social work practice is based on reciprocal role performance.

Social work education engages the student in carefully planned experiences to achieve the knowledge, skills, and attitudes necessary for beginning professional competence. These experiences take place in the classroom, laboratory, volunteer experience, small seminars, and selected field work practicum placements. The practicum placement (SWK A461A and A462A/B) is an essential component for completion of the professional degree for the BSW.

The Bachelor of Social Work degree program is accredited by the Council on Social Work Education (CSWE).

BACHELOR OF SOCIAL WORK

ADMISSION REQUIREMENTS

Students who declare a social work major and who qualify for admission to baccalaureate study will be admitted to pre-major status. Social work pre-major status does not guarantee full admission to the Social Work program. Students must apply for full admission to the Social Work program during the spring semester prior to their eligibility for fieldwork courses, SWK A461 A/B and SWK A462 A/B. Full admission to the Social Work Program is based upon the requirements listed below.

Credits earned through other CSWE accredited social work programs can be transferred to UAA and applied toward the Bachelor of Social Work degree. Approval from the UAA School of Social Work is required for acceptance of social work transfer credits from programs which are not accredited by CSWE.
To apply for full admission to the Social Work Program, students must complete:

1. University General Education Requirements (34 credits).
2. Liberal Arts Foundation courses (21 credits). A grade of “C” or better must be earned in the following courses:
   - ANTH A250
   - CIOS A105
   - ENGLA311, A312, or A414
   - ENGLA121, A301, A302, A305, A306 or A307
3. The following required core Social Work courses with a grade of “C” or better: SWK A106, SWK A306, SWK A324, SWK A342, SWK A343, and SWK A360.

Once the above requirements are met, students must submit to the School of Social Work by the first Friday in March the following:

1. The Bachelor Social Work Application for Admission to Practicum (SWK A461A/B) for fall enrollment.
3. A Student Practicum Interest sheet.
4. A Change of Major form requesting change of admission status from pre-major to full major.

Students participate in an interview with faculty to jointly assess readiness for SWK A461A/B and readiness to successfully complete remaining program requirements. The School of Social Work will notify applicants of their status by May 15.

Admission to the Social Work program is based on 1) completion of the requirements listed above, 2) demonstration of beginning competence in client-centered communication skills developed in SWK A360, documented in simulated videotaped interviews, and 3) availability of departmental faculty resources to insure a quality educational experience.

The BSW Practicum Coordinator will make reasonable efforts to place all admitted BSW students in Field practicum. Placement is dependent upon availability of resources in the community and in the department. Additionally, acceptance into the BSW program does not guarantee acceptance by cooperating practicum settings.

**Academic Progress**

Students in the Social Work program must earn a grade of “C” or better in the required liberal arts foundation and the core social work courses. Adherence to the Code of Ethics established by the National Association of Social Workers is required.

**Course Content Currency Requirement**

All upper division courses with a Social Work subject code (SWK) must be completed within seven years prior to graduation.

**Graduation Requirements**

Students must complete the following graduation requirements:

**A. General University Requirements**

Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

**B. General Education Requirements**

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

Note: In selecting GER courses, students are encouraged to choose HISTA101, A102, SOC A101, PSYA150 and courses which include human biology course content (BIOLA102, A105, A106, A111 or A113) which are specific prerequisites required in order to register in SWK A106, A306, and A342.

**C. Major Requirements**

1. Complete the following liberal arts foundation courses (18 credits):
   - ANTH A250 3
   - CIOS A105 3
   - ENGLA311, A312, or A414 3
   - ENGLA121, A301, A302, A305, A306 or A307 3
   Choose one of the following: 3
   - ENGLA120, PHILA101, A201, A301, or A421
   Choose one of the following: 3
   - ANTH A200, A202

2. Complete the following required core courses (48 credits):
   - SWK/HUMS A106  Introduction to Social Welfare 3
   - SWK A306  Introduction to Social Work 3
   - SWK A324  Social Work Research with Statistical Application 3
   - SWK A342  Human Behavior in the Social Environment 3
   - SWK A343  Human Behavior: Diversity and Discrimination 3
   - SWK A360  Introduction to Generalist Social Work Practice 3
   - SWK/SOC A407  Formal Organizations 3
   - SWK A461A  Social Work Practice I 3
   - SWK A461B  Social Work Practicum I 6
   - SWK A462A  Social Work Practice II 3
   - SWK A462B  Social Work Practicum II 6
   Upper-division Social Work electives 6

3. Complete electives to total 120 credits.
4. A total of 120 credits is required for the degree, of which 48 must be upper-division.
## RECOMMENDED COURSE SEQUENCE

### First Year

#### Fall Semester
- **Engl A111**  Methods of Written Communication  3
- **SOC A101**  Introduction to Sociology  3
- **HIST A101**  Western Civilization I  3
- Literature: (ENGLA121, A301, A302, A305, A306, or A307)  3
- **CIOS A105**  Intro to PC Computers and Applications  3

#### Spring Semester
- **COMM A111, A235, A237, or A241**  3
- **PSYA150**  Human Development  3
- **HIST A102**  Western Civilization II  3
- **ENGLA120, PHILA101, A201, A301, or A421**  3
- Elective  3

### Second Year

#### Fall Semester
- **ENGLA211, A212, or A213**  3
- **AS A252 or MATH A107**  3
- Natural Science  3
- Natural Science Lab  1
- Humanities #1  3
- Language #1  3
- Fine Arts or Elective

#### Spring Semester
- **ANTH A250**  The Rise of Civilization  3
- **BIOLA102**  Introductory Biology  3
- Humanities #2  3
- Language #2  3
- **SWK A407**  Formal Organizations  3
- **SWK A106**  Introduction to Social Welfare  3

### Third Year

#### Fall Semester
- **ANTH A200 or A202**  3
- **ENGLA311, A312, or A314**  3
- **SWK A306**  Introduction to Social Work  3
- **SWK A342**  Human Behavior in the Social Environment  3

#### Spring Semester
- **SWK A360**  Introduction to Generalist SW Practice  3
- **SWK A343**  Diversity & Discrimination  3
- **SWK A324**  SW Research w/Statistics  3
- **SWK Elective**  3
- Elective  3

### Fourth Year

#### Fall Semester
- **SWK A461A**  SW Practice I  3
- **SWK A461B**  SW Practicum I  6
- **SWK Elective**  3

#### Spring Semester
- **SWK A462A**  SW Practice II  3
- **SWK A462B**  SW Practicum II  6
- **SWK A406**  Social Welfare Policies  3
- Elective  3

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## MINOR, SOCIAL WELFARE STUDIES

Students majoring in another subject who wish to minor in Social Welfare Studies must complete the following requirements. A total of 18 credits is required for the minor.

- **SWK/HUMS A106**  Introduction to Social Welfare  3
- **SWK A306**  Introduction to Social Work  3
- **SWK A342**  Human Behavior in the Social Environment  3
- **SWK A343**  Human Behavior: Diversity and Discrimination  3
- **SWK A406**  Social Welfare: Policies and Issues  3
- Upper-division Social Work electives  3

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COMMUNITY AND TECHNICAL COLLEGE

The UAA Community and Technical College is a major center for development and delivery of vocational, community, and continuing education programs. To accomplish this, the College also provides courses to degree seeking students within identified populations at off-campus locations or within time frames designed to make education more accessible, delivers quality continuing education courses to professionals and the community, provides instruction and services for under-prepared and at-risk students, and provides cultural and community service programs.

In keeping with the mission of the University of Alaska Anchorage, the Community and Technical College has a commitment to innovation and flexibility that makes high quality education and training available to all who have the ability and interest to pursue an education or profession. Faculty within the College are highly trained professionals, many with years of experience in the technical specialties related to their teaching areas. Vocational Advisory Committees help insure that programs are closely linked to the needs of the work force. Graduates of the College generally find immediate employment in their chosen field of study.

Certificates and degrees from the high school diploma and Associate of Applied Science degree through the Master’s Degree are offered in over 20 program areas. In addition, the College delivers statewide programs in Apprenticeship Technologies, Vocational Education, the Mining and Petroleum Training Service, North Pacific Fisheries Observer Training Center, and Military Education Services.

REGISTRATION

The Community and Technical College offers on-going registration. Students may register from the time a course is announced until the first day of the class. Register weekdays in the Diplomacy Building at the corner of Tudor Rd. and Tudor Centre Dr., Suite 501, between 8:30am and 4:30 pm (907) 786-6721, or the Chugiak-Eagle River Campus at the Eagle Center (907) 694-3313.

ARTICULATION WITH HIGH SCHOOL PROGRAMS

The Community and Technical College has a close and positive working relationship with the Anchorage School District that eases the transition from high school to college. Also, students may earn college credit for vocational courses while still in high school. Information regarding these programs can be obtained from the UAA Advising and Counseling Center or the home high school.

REGIONAL COORDINATION

The Community and Technical College serves as a resource to the Southcentral region extended campuses in the area of vocational education. The Dean of the College serves as regional vocational education coordinator and provides assistance to the campus directors and faculty in coordinating the development and delivery of vocational education programs and course work in Kenai, Kodiak and Palmer. The goal of regional coordination of vocational education is to allow the student maximum flexibility within acceptable academic guidelines. Many courses are offered between UAA and the Southcentral extended campuses and may be easily transferred from one campus to another.

ALASKA OUTDOOR AND EXPERIENTIAL EDUCATION

www.uaa.alaska.edu/aoee/

The Alaska Outdoor and Experiential Education department provides outdoor or adventure education through the use of hands-on techniques. Course offerings are diverse and include topics such as backpacking, rock climbing, sea kayaking, winter camping, emergency medicine, and wilderness leadership. The department’s non-credit offerings are recreational in nature and do not provide the academic component found in its credit courses. Non-credit classes can be found under the subject AOEN.

Many of AOEE’s classes are held in Alaska’s wilderness, an environment that can pose a risk to even the most experienced outdoor leader. Students may be required to perform activities in extremely inclement weather i.e. rain, sleet, snow, wind or sub-zero temperatures. Additionally, there is an assumption that a minimum level of physical fitness is needed to succeed in and enjoy many of the activities. Consequently, before enrolling in an AOEE courses, students should review the following information.

PHYSICAL FITNESS LEVEL: Many 100-level courses have been designed for the student with an average level of fitness and health; e.g., a student would be expected to comfortably travel five miles over easy terrain. If a higher than average fitness level is required, a special note will identify the necessary level of fitness.

Good Fitness is defined as above average fitness relative to a typical, healthy adult. Courses that require good fitness will involve a moderate degree of physical activity; may involve travel over challenging terrain; may involve carrying a pack weighing 50 pounds or more; or may involve multiple hours of exercise. A student who is physically or mentally unprepared to withstand a moderate amount of exercise should not enroll in the course.

Excellent Fitness is defined as possessing health of outstanding quality or being in remarkably good physical condition. Excellent fitness is required for expedition courses.
VENUE AND TERRAIN DIFFICULTY: Students will hike and travel in a variety of environments in AOEE courses. The following breakdown provides an overview of terrain difficulty. 

Easy terrain can be negotiated by novices. Traveling is usually done on well-maintained trail systems; can include hiking, skiing or snowshoeing; elevation gains/losses generally under 500 feet per mile; and stream crossings of calf deep or less. Off-trail travel includes traveling on firm ground over gentle terrain.

Moderate terrain requires good physical fitness. Traveling is usually done on rugged trails or off trail. The hiking often includes inclines/declines of 500 to 1500 feet per mile. Off-trail travel can include bushwhacking; uneven, wet or marshy ground; scrambling up, over or around small terrain features; and river crossings up to knee deep.

Difficult terrain requires excellent physical fitness. Traveling is usually done off trail and can include uneven, challenging ground; lack of firm footing; steep tundra, rock or screen; wet, snowy or icy slopes; and thigh to waist deep river crossings. Specialized gear may be required for travel.

Extremely difficult terrain requires excellent physical fitness. Traveling is done off trail and participants must be prepared to endure all of the features listed under “difficult terrain” for long hours and potentially multiple days. Specialized gear is usually required for travel.

ACKNOWLEDGEMENT OF RISK, RELEASE OF LIABILITY AND MEDICAL QUESTIONNAIRE FORM: During the first class session, students will receive information about the course outings. A verbal description will provide additional information about the inherent risks associated with specific areas and activities. Students will be asked to complete acknowledgement of risk forms, sign release of liability statements and provide personal medical information and emergency contact names and numbers.

STUDENT HEALTH INSURANCE: Students enrolling in an AOEE activity course are provided with basic health insurance coverage during field sessions only. This policy is intended to supplement personal policies and does not include the cost of emergency evacuation.

REFUND POLICY: All AOEE classes are self support and follow a separate refund policy from general UAA courses. For non-expedition courses, students are entitled to a full refund if they drop two working days before the first class period. If a student decides to drop after the first session, s/he must contact the AOEE office within one working day of the first class. A student who initiates a drop at that time may be entitled to a full refund.

MINORS: Sixteen- and seventeen-year-old students must receive coordinator approval before they are allowed to enroll in AOEE courses. Students under sixteen years of age cannot enroll in AOEE courses.

DEVELOPMENTAL EDUCATION
The mission of the Developmental Education Department is to empower non-traditional and at-risk college students through the development of critical thinking and learning skill, self-esteem, and academic proficiency so that these students may successfully pursue life-long learning goals. The Department offers Composition, Reading, Math, and English-as-a-Second Language classes that prepare students for mainstream college classes.

Math classes are developmentally taught to insure mastery of the required course material. Classes incorporate in-class lectures, work in the math lab with instructors and certified tutors, untimed testing in the math lab at the student’s convenience, and the ability to re-take chapter tests. Computer software, videotapes, audiotapes, workshops, telecourses, and calculator training are also available.

Developmental English classes are located under the PRPE prefix (Preparatory English) and include short courses for vocabulary, grammar, and study skills; individualized labs for reading and writing; and full length semester courses for reading and composition. The Developmental Education Department offers English-as-a-Second Language courses that serve as a bridge between classes at the Adult Learning Center and courses offered by the College of Arts and Sciences. Slingerland courses help learning-disabled students improve spelling, handwriting, reading, writing, and learning skills. Study Skills courses help students master skills and techniques used to succeed in college classrooms and to learn how to benefit from services offered on the University campus.

Interdisciplinary learning communities, such as Smart Start and Step Up, provide collaborative instruction in math, writing, reading, and academic success skills. These classes are taught by a cadre of developmental educators and tutors. They provide a high degree of support for at-risk students.

Learning labs are computerized and staffed by certified tutors for composition and math and are operated by the Department in conjunction with the Learning Resource Center and Title III.

MINING AND PETROLEUM TRAINING SERVICE (MAPTS)
The Mining and Petroleum Training Service was conceived to meet the immediate training needs of the petroleum industry during Alaska’s oil-driven industrial growth period. Since that time, the program has expanded and is currently viewed as a special arm of the University concentrating efforts in industrial training for many different client groups. MAPTS is an exciting segment of the Community and Technical College’s commitment to meeting the ongoing need for vocational training in the state.
The Community and Technical College offers certificates of completion to students enrolling in specific programs. Students may enroll in courses for which they have satisfied the prerequisites. Expedition courses require the student to withdraw 45 days before the course start date in order to receive a full refund.

The Community and Technical College

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATES OF COMPLETION

The Community and Technical College offers certificates of completion to students enrolling in specific programs. Students may enroll in courses for which they have satisfied the prerequisites. Expedition courses require the student to withdraw 45 days before the course start date in order to receive a full refund.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATES, AUTOMOTIVE

See the Automotive and Diesel Technology section of this chapter for details about these four nontranscripted programs of study: Automotive Electrical; Automotive Brakes, Suspension and Alignment; Automotive Power Trains; and Automotive Engine Performance.

NONTRANSCRIPTED DEPARTMENTAL CERTIFICATE, FLORAL DESIGN

Cuddy Center, Room 126, 786-1401

The nontranscripted Floral Design Program prepares students for work in the floral industry. Courses cover basic and advanced designs and styles including weddings, funerals, and other special events and treatments, as well as operations, management and processes specific to the industry. Instruction is delivered through classroom lectures, demonstrations, laboratories, and beginning and advanced practica. Courses will be offered when sufficient enrollment permits.

1. Students must complete the following required courses (18 credits):
   - BA A166: Small Business Management 3
   - FD A161: Floral Design I 3
   - FD A162: Floral Design II 3
   - FD A163: Floral Design III 3
   - FD A164: Floral Design IV 3
   - FD A195A: Floral Design Practicum I 1
   - FD A195B: Floral Design Practicum II 2

2. Students must demonstrate computer competency in one of three ways: a three credit computer course; work-related experience verifying computer competency as approved by faculty advisor; or self-initiated computer competency as approved by faculty advisor.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:
   - PE A160: Introduction to Coaching 2
   - PE A161: Sport First Aid 1
   - PE A260: Citizenship through Sports 1
   - PE A261: Drugs and Sport 1

2. Complete one of the following courses:
   - PE A263: Coaching Basketball (2)
   - PE A264: Coaching Soccer (2)
   - PE A265: Coaching Volleyball (2)
   - PE A266: Coaching Hockey (2)
   - PE A267: Coaching Football (2)
   - PE A268: Coaching Baseball/Softball (2)
   - PE A269: Coaching Track and Field/Running (2)
   - PE A270: Coaching Skiing (2)
   - PE A271: Coaching Swimming and Diving (2)
   - PE A272: Coaching Gymnastics (2)
   - PE A273: Coaching Wrestling (2)
   - PE A274: Coaching Figure Skating (2)

3. Pass NFICEP exams and achieve a grade of “B” or better in each required course.

4. Possess current CPR certification.

Eugene Short Building, Room 125 786-4083

The Coaching Leadership certificate, offered by the UAA Physical Education and Recreation Program, provides students the opportunity to acquire the knowledge and skills necessary to secure a position as a youth or interscholastic coach. The nontranscripted Coaching Leadership departmental certificate of completion was developed to support national requirements and significant trends in coaches’ education.

The comprehensive program provides a solid foundation of coaching applications and principles, sports first aid, citizenship and sport, and techniques necessary to coach a specific team and individual sport. All classes combine current sport education, research, and training techniques with practical, hands-on coaching experience. This program follows the guidelines established by the partnership between the National Federation of State High School Associations (NFHS) and the American Sport Education Program (ASEP). Materials used in this program have been endorsed by the National Federation Interscholastic Coaches Education Program (NFICEP). Students who successfully complete this program will received an additional nationally recognized certification from NFICEP.

There is no formal application required to enter this program.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:
   - PE A160: Introduction to Coaching 2
   - PE A161: Sport First Aid 1
   - PE A260: Citizenship through Sports 1
   - PE A261: Drugs and Sport 1

2. Complete one of the following courses:
   - PE A263: Coaching Basketball (2)
   - PE A264: Coaching Soccer (2)
   - PE A265: Coaching Volleyball (2)
   - PE A266: Coaching Hockey (2)
   - PE A267: Coaching Football (2)
   - PE A268: Coaching Baseball/Softball (2)
   - PE A269: Coaching Track and Field/Running (2)
   - PE A270: Coaching Skiing (2)
   - PE A271: Coaching Swimming and Diving (2)
   - PE A272: Coaching Gymnastics (2)
   - PE A273: Coaching Wrestling (2)
   - PE A274: Coaching Figure Skating (2)

3. Pass NFICEP exams and achieve a grade of “B” or better in each required course.

4. Possess current CPR certification.
NONTRANS cribed Departmental Certificate, Health Care Assistant
Allied Health Sciences Room 158, 786-6934

The nontranscribed Health Care Assistant departmental certificate of completion is an approved State of Alaska program designed to prepare individuals for entry-level employment in long-term care facilities, hospitals, and community settings. Instruction is delivered through classroom lectures, demonstrations, skills lab, and practicum. Successful completion of the program allows individuals to apply for the state of Alaska Nurse Aide Certification examination. No part of the HCA Program may be used to satisfy requirements for an associate or baccalaureate degree in Nursing.

1. Students must complete the following required courses:
   - HCAA055 Health Care Assistant 4
   - HCAA176 First Aid and CPR for Professionals 1
   - HCAA095 Health Care Assistant Practicum 3

2. Special application procedures are necessary to enroll. Contact Health Education and Training for further information.

NONTRANS cribed Departmental Certificate, Therapeutic Massage Therapy
Allied Health Sciences, Room 158, 786-6934

The nontranscribed Therapeutic Massage Therapy department certificate of completion is designed to prepare students to become successful massage therapists. The program provides a balanced education in the science, art, and ethics of massage therapy through theory and application. Successful completion of the program meets national certification requirements and allows individuals to apply for a municipal license as a massage therapist.

1. Students must complete the following required courses:
   - Fall Semester
     - HCAA151 Human Health and Disease I 3
     - HCAA153 Fundamentals of Therapeutic Massage I 4
     - HCAA154 Assessment, Documentation, and Professional Communication for Massage Therapists 1
     - HCAA155 Professional Practice Management 1
     - HCAA176 First Aid and CPR for Professionals 1
   - Spring Semester
     - HCAA152 Human Health and Disease II 3
     - HCAA253 Fundamentals of Therapeutic Massage II 4
     - HCAA254 Structure, Function, Movement 3
     - HCAA295 Massage Therapy Clinical Practicum
   - Summer Semester
     - HCAA255 Advanced Therapeutic Massage Techniques I 3
     - HCAA256 Advanced Therapeutic Massage Techniques II 3

2. A total of 28 credits is required for the nontranscribed departmental certificate of completion.

3. Special application procedures are necessary to enroll. Contact Health, Education, and Training for further information.

NONTRANS cribed Departmental Certificate, Medical Assisting Certificate

See the Medical Assisting section of this chapter for details about the nontranscribed departmental certificate of completion.

NONTRANS cribed Departmental Certificate, Fitness Leadership

The Fitness Leadership nontranscribed certificate provides students the opportunity to acquire the knowledge and skills necessary to develop a career in the ever-changing fitness industry. An array of career possibilities are available to individuals who successfully complete this program in aerobics fitness instruction, personal training, or aquatics fitness instruction.

This comprehensive program provides students with 90 hours of leadership training in exercise theory and practice and 60 hours of training in their chosen fitness specialty or emphasis area: Aerobics Fitness Instructor, Personal Trainer, or Aquatics Fitness Instructor. All classes combine current fitness research and training techniques with practical, hands-on teaching experience. This program follows the guidelines established by the American Council on Exercise (ACE) and the American College of Sports Medicine (ACSM).

The Fitness Leadership certificate of the Physical Education and Recreation program is designed to provide quality education and training to individuals interested in working in the fitness industry. Of these ten credits, six include lecture courses and four are laboratory sessions. The labs are enhanced by practicum experiences that reinforce skills, knowledge, and leadership qualities. Students receive training in basic applied kinesiology and exercise physiology, nutrition and healthy weight loss, injury prevention, fitness assessment, legal considerations, special populations, health screening, leadership, and motivation.

There is no formal application required to enter this program.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:
   - PE A140 Introduction to Fitness Leadership 3
   - PE A240 Issues in Fitness Leadership 3

2. Complete the required courses within one of the following three emphasis areas:
   - Aerobics Fitness Instructor
     - PE A241 Techniques in Fitness Instruction I 2
     - PE A242 Techniques in Fitness Instruction II 2
   - Personal Trainer
     - PE A142 Techniques in Personal Training I 2
     - PE A242 Techniques in Personal Training II 2
   - Aqua Fitness Instructor
     - PE A141 Techniques in Fitness Instruction I 2
     - PE A243 Techniques in Aqua Fitness Instruction 2

3. Possess current CPR and Standard First Aid certifications for professionals.

4. A grade of “B” or better in each required course with an overall GPA of 3.0 or better for all courses required for the Fitness Leadership Nontranscribed Departmental Certificate of Completion.
APPRENTICESHIP TECHNOLOGIES
Beatrice McDonald Building (BMB), Room 210, (907) 786-6446

Individuals, as well as Alaskan industries, must meet increasing training and certification requirements reflecting more complex business and industrial standards. The Associate of Applied Science Degree in Apprenticeship Technologies serves a statewide population seeking vocational training and supporting course work. The curriculum prepares graduates for the rapidly changing global workplace of the 21st century.

The Apprenticeship Technologies program is a 60-credit Associate of Applied Science degree coordinated by the University of Alaska Anchorage, and is delivered collaboratively through UAA, UAF, and UAS. The curriculum specifically reflects the commitment of the University to provide high-quality instruction and service to the public, through a practical integration of general course work and training for vocational-technical trades. Individuals receiving this degree must complete a formal apprenticeship program and hold journeyman level status in trades recognized by the U.S. Department of Labor, Bureau of Apprenticeship and Training.

Students declaring a major in Apprenticeship Technologies must present documentation of completion of an apprenticeship program approved by the U.S. Department of Labor, Bureau of Apprenticeship and Training. The department will review the documentation and may recommend up to 38 credits be transcripted following completion of all courses listed in the Degree Requirements section.

ASSOCIATE OF APPLIED SCIENCE
APPRENTICESHIP TECHNOLOGIES

ADMISSION REQUIREMENTS
See Open Admission at the beginning of this chapter.

GENERAL UNIVERSITY REQUIREMENTS
Complete the associate degree requirements located at the beginning of this chapter.

Complete the associate of applied science degree requirements (15 credits) located at the beginning of this chapter. Some of the major requirements also will fulfill associate of applied science degree general requirements.

MAJOR REQUIREMENTS
1. Complete the following required courses:
   - ENGLA111 Methods of Written Communication 3
   - ENGLA212 Technical Writing 3
   - EMT A110 Emergency Trauma Technician 3
   - HUMS/PSYA153 Human Relations 3
   - MATH A107 College Algebra (4) 3-4
     or
   - AS A252 Elementary Statistics (3)

2. Complete one of the following: 3
   - COMM A111 Fundamentals of Oral Communication (3)
   - COMM A235 Small Group Communication (3)
   - COMM A237 Interpersonal Communication (3)
   - COMM A241 Public Speaking (3)

3. Select three (3) credits from the following:
   - CIOS A105 Introduction to PC Computers and Applications (3)
   - CIOS A107 Macintosh Computer and Applications (3)
   - CS A100 Introduction to Computers (3)

3. Technical credits from approved apprenticeship program 38

4. Elective 1

5. A total of 60 credits is required for the degree.

FACULTY

Erie Johnson, Associate Professor, AFEVJ@uua.alaska.edu
ARCHITECTURAL AND ENGINEERING TECHNOLOGY
Beatrice McDonald Building (BMB), Room 210, (907) 786-6426

Note: The Architectural and Engineering Technology program is undergoing curriculum changes. Contact department.

The Architectural and Engineering Technology program provides continuing education, entry-level skills, and advanced technical skills in several specialized fields, including Computer-Aided Design and Drafting (CADD) and Geographic Information Systems (GIS).

Students are trained to become skilled workers on architectural and engineering teams. AET certificate and degree graduates are employed as technicians or drafters and work in private industry as well as state or federal agencies.

The AAS degree requires 4 to 5 semesters to complete.

The AET faculty assist students with curriculum planning to prepare for the Associate Technician Qualifying Examination offered by the Institute for the Certification of Engineering Technicians.

Although courses taken may apply to the first two years of a four-year degree program (i.e. BS in Technology), the AAS degree should not be considered a preparatory or substitute for professional degree programs in Architecture or Engineering. Students pursuing a four-year degree program should contact the Engineering Department at UAA or the AET Program for careers in architecture.

Subject to scheduling, students may select either 5-week or 15-week blocks of instruction for each AET course. Content is the same; only the amount of time a course meets per week is different. Students spend at least one hour on outside lab work for each hour in class.

Lab facilities are available for students' use five days a week. A full curriculum is offered during fall and spring with occasional short courses during the summer.

In addition to tuition and fees, students should expect to purchase books and equipment required for each course. However, supplies should not be purchased before the first class.

CERTIFICATES

ADMISSION REQUIREMENTS
Certain courses require prerequisites or faculty permission. Contact (907) 786-6426 for further information.

GRADUATION REQUIREMENTS
In order to receive a certificate offered by the AET Department, students must achieve a 4.00 GPA in their certificate requirements.

ARCHITECTURAL DRAFTING

CERTIFICATE REQUIREMENTS
1. Complete the following required courses:
   - AET A101 Fundamentals of Drafting for Building Construction 3
   - AET A102 Specifications and Materials for Building Construction 4
   - AET A121 Architectural Working Drawings and Office Practice 3
   - AET A211 Design Development for Architectural Technicians 4
   - AET A281 Basic 2-D CADD 4
2. A total of 21 credits is required for the certificate.

CIVIL ENGINEERING DRAFTING

CERTIFICATE REQUIREMENTS
1. Complete the following required courses:
   - AET A101 Fundamentals of Drafting for Building Construction 3
   - AET A102 Specifications and Materials for Building Construction 4
   - AET A111 Topography and Land Development Drafting 3
   - AET A211 Subdivision Design and Land Classification 4
   - AET A212 Advanced Site Development Techniques 3
   - AET A281 Basic 2-D CADD 4
2. A total of 21 credits is required for the certificate.

MECHANICAL AND ELECTRICAL DRAFTING

CERTIFICATE REQUIREMENTS
1. Complete the following required courses:
   - AET A101 Fundamentals of Drafting for Building Construction 3
   - AET A102 Specifications and Materials for Building Construction 4
   - AET A141 Mechanical Building Equipment Design and Drafting 3
   - AET A151 Electrical Building Equipment Design and Drafting 3
   - AET A281 Basic 2-D CADD 4
2. A total of 17 credits is required for the certificate.

STRUCTURAL DRAFTING

CERTIFICATE REQUIREMENTS
1. Complete the following required courses:
   - AET A101 Fundamentals of Drafting for Building Construction 3
   - AET A102 Specifications and Materials for Building Construction 4
   - AET A131 Structural Working Drawings and Office Practice 3
   - AET A231 Structural Design and Detailing for Engineering Technicians 3
   - AET A281 Basic 2-D CADD 4
2. A total of 17 credits is required for the certificate.
ASSOCIATE OF APPLIED SCIENCE, ARCHITECTURAL AND ENGINEERING TECHNOLOGY

ADMISSION REQUIREMENTS

Certain courses require prerequisites or faculty permission. Contact (907) 786-6426 for further information.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter. GEOLA111 and MATH A105 are recommended.

MAJOR REQUIREMENTS

1. Complete the following required courses (39 credits):
   - AET A101 Fundamentals of Drafting for Building Construction 3
   - AET A102 Specifications and Materials for Building Construction 4
   - AET A111 Topography and Land Development Drafting 3
   - AET A121 Architectural Working Drawings and Office Practice 3
   - AET A122 Architectural Presentation Techniques 3
   - AET A131 Structural Working Drawings and Office Practice 3
   - AET A141 Mechanical Building Equipment Design and Drafting 3
   - AET A151 Electrical Building Equipment Design and Drafting 3
   - AET A211 Subdivision Design and Land Classification 4
   - AET A212 Advanced Site Development Techniques 3
   - AET A221 Design Development for Architectural Technicians 4
   - AET A231 Structural Design and Detailing for Engineering Technicians 3

2. Electives
   - CS A100, AET A281 are recommended. 6

3. A total of 60 credits is required for the degree.

FACULTY

J. Ellen McKay, Associate Professor, AFJEM@uaa.alaska.edu
Jeffrey Callahan, Term Instructor, AFJC11@uaa.alaska.edu
Joel Condon, Term Assistant Professor, AFJCC@uaa.alaska.edu

AUTOMOTIVE & DIESEL TECHNOLOGY

Auto & Diesel Technology Building (ADT), Room 207, (907) 786-1461

The Auto/Diesel Technology Department offers two AAS degrees, Automotive Technology and Diesel Technology. There are two program options for the Automotive Technology degree.

High-level reading skills are a must for successful automotive or diesel technicians. Text books and shop manuals are written at the postsecondary reading level. All ADT classes require 2-3 hours of outside preparation for each classroom hour. Typically, full-time students will study 3-4 topics per semester and spend approximately 35-40 hours per week preparing for and attending classroom and laboratory/shop classes. Prospective students are provided with a list of required tools for their selected program. Students are required to supply their own industry quality tools and tool box. Special purchase arrangements for the required tools are available from various sources at special student pricing. Students should plan ahead and have all sources of financial aid secured prior to registration for classes.

In addition to the General University Requirements, Automotive and Diesel Technology AAS degree and certificate programs have specific advising and admissions procedures. All students will be admitted as pre-majors until they have completed the admissions process. Contact the ADT program for a complete information packet and current application process. Postsecondary transcripts, SAT, or ASSET placement test scores must be available. A keyboarding assessment is required to prepare for the computer competency requirement. A resume of work experiences and a letter stating why the individual wants to become an automotive or diesel technician is required as part of the ADT program advising file. Upon receipt of the above documents an ADT faculty advisor will be assigned to assist the student in advancing to official ADT major status and developing their educational plan.

Although students may enroll in a maximum of 18 credits of ADT A195, Practicum I, only 6 credits apply to the Certificate in Automotive Technology; Non-Transcripted Departmental Certificates of Completion in Automotive Electrical; Automotive Brakes, Suspension and Alignment; and Automotive Power Trains, and the AAS degree in Automotive Technology.
AUTOMOTIVE TECHNOLOGY (GENERAL)

Note: Admission to the AAS degree and Certificate in General Automotive Technology currently is suspended. Contact the department for details.

This program is modeled after a variety of very successful corporate training programs. The program is five semesters long. It incorporates a prearranged, supervised, evaluated practicum after the first two semesters, with the possibility of an additional practicum during the last semester. Students experience training on a wide variety of modern domestic and imported vehicles, light trucks, and vans. Laboratory and shop objectives are met on training vehicles, components, and live shop projects. Automotive Technology graduates have been placed in dealerships, independent shops, service stations, mass merchandisers, aviation ground support, and fleet repair facilities. Employers require a current vehicle operator’s license and a good driving record. The student should have physical capabilities required of the trade which typically include standing long hours; lifting heavy objects; contacting hazardous materials; operating machinery; exposure to noise, heat, cold, vapors, and other work place hazards; manipulating tools; and working with small parts in confined and awkward positions. Technicians must be able to distinguish colors in minimal light, transcribe numbers up to 17+ digits, and work up to 10 hours a day, 6 days per week. Equal opportunities are available for men and women.

AUTOMOTIVE TECHNOLOGY (FORD ASSET)

The ASSET (Automotive Student Service Educational Training) program is a joint venture with Ford Motor Company and its sponsoring Ford-Mercury-Lincoln dealerships. Admission to this program is only in even numbered years and has very specific admission requirements. Please contact the ASSET instructor, the department or a sponsoring dealership for details. Students in the ASSET program attend class the first eight weeks of the semester and paid work experience the balance of the semester at the sponsoring dealership. The program is five semesters in length and includes a summer semester. General Education courses (English, Speech, Math, etc.) are conducted on a half-semester format by special arrangement through the College of Arts and Sciences.

GENERAL MOTORS AUTOMOTIVE SERVICE EDUCATION PROGRAM (ASEP)

ASEP is a joint venture with UAA, General Motors Corporation and sponsoring General Motors dealerships throughout Alaska. The program is five semesters in length, including one summer semester, and leads to an Associate of Applied Science degree from UAA. Student selection occurs up to three months prior to the start of the program. ASEP’s designed to provide students with the high-tech knowledge and skills necessary to diagnose and repair the modern General Motors vehicle. The ASEP program consists of eight weeks of on-campus instruction and seven weeks of paid employment at a sponsoring GM dealership each semester. Successful ASEP students receive General Motors Certification upon graduation.

DIESEL TECHNOLOGY

The Diesel Technology program generally deals with trucks and rubber-tired equipment. Much of the technical knowledge and skills will transfer to tracked equipment or marine engine/power production. The program is four semesters long and shares a common first year with the Automotive program. The second year is very specific training in Diesel Technology related topics. Laboratory/shop experiences occur on component pieces from our training engines and vehicles donated by the manufacturers, the department’s four diesel powered vehicles, and live jobs. Diesel Technology graduates have been placed statewide in independent repair shops, various fleets, construction, mining, aviation ground support, and the seafood processing support industry. Employers require a current vehicle operator’s license, a good driving record, and good physical condition. Equal opportunities are available for men and women.

CERTIFICATE, AUTOMOTIVE TECHNOLOGY

Note: Admission to the certificate program in Automotive Technology is currently suspended. Contact the department for details.

Automotive Technology certificates require demonstrated computer competency. Computer competency may be demonstrated in any of the following ways:

a. A 3 credit course in a computer language or an introductory course in data processing or microcomputers.
b. Work-related experience verifying computer competency as approved by the faculty advisor.
c. Self-initiated computer competency as approved by the faculty advisor.

1. Complete the following required courses:

   First Semester
   - ADT A102 Introduction to Automotive Technology 3
   - ADT A111 Power Trains I 3
   - ADT A121 Auto Electrical I 3
   - ADT A130 Basic Auto Engines 3

   Second Semester
   - ADT A114 Power Trains II 3
   - ADT A131 Auto Electrical II 3
   - ADT A150 Brake Systems 4
   - ADT A162 Suspension and Alignment 4

   Third Semester
   - ADT A195 Automotive Practicum I (1-6) 6

   Fourth Semester
   - ADT A211 Auto Fuel Systems 4
   - ADT A212 Engine Performance 6

   Fifth Semester
   - ADT A225 Auto Heating and A/C 3
   - ADT A227 Auto Electrical III 3
   - ADT A282 Power Trains III (3) 3
     or
   - ADT A295 Automotive Practicum II (3)

2. A total of 51 credits is required for the certificate.
CERTIFICATE, DIESEL TECHNOLOGY

The Diesel Technology certificate requires demonstrated computer competency. Computer competency may be demonstrated in any of the following ways:

a. A 3 credit course in a computer language or an introductory course in data processing or microcomputers.
b. Work-related experience verifying computer competency as approved by the faculty advisor.
c. Self-initiated computer competency as approved by the faculty advisor.

1. Complete the following required courses:

   First Semester
   - ADT A102 Introduction to Automotive Technology 3
   - ADT A111 Power Trains I 3
   - ADT A121 Auto Electrical I 3
   - ADT A130 Basic Auto Engines 3

   Second Semester
   - ADT A114 Power Trains II 3
   - ADT A131 Auto Electrical II 3
   - ADT A150 Brake Systems 4
   - ADT A162 Suspension and Alignment 4

   Third Semester
   - ADT A241 Diesel Fuel Systems 2
   - ADT A243 Heavy-Duty Electrical Systems 3
   - ADT A245 Diesel Engines 2
   - ADT A246 Diesel Service Laboratory I 5
   - WELD A112 Shielded Metal Arc Welding (SMAW)(4) 4
   or
   Other approved WELD course (4)

   Fourth Semester
   - ADT A248 Diesel Service Laboratory II 6
   - ADT A261 Hydraulics 2
   - ADT A263 Heavy-Duty Power Trains 2
   - ADT A265 Heavy-Duty Chassis 2

2. A total of 54 credits is required for the certificate.

NONTRANSFERRED DEPARTMENTAL CERTIFICATES OF COMPLETION, AUTOMOTIVE

Nontransferred Automotive Technology certificates require demonstrated computer competency. Computer competency may be demonstrated in any of the following ways:

a. A 3 credit course in a computer language or an introductory course in data processing or microcomputers.
b. Work-related experience verifying computer competency as approved by the faculty advisor.
c. Self-initiated computer competency as approved by the faculty advisor.

Four nontransferred departmental certificate of completion programs are available: Automotive Electrical; Automotive Brakes, Suspension and Alignment; Automotive Power Trains; and Automotive Engine Performance. Discuss academic plan and scheduling with faculty advisor.

A. Automotive Electrical

1. Complete the following courses:
   - ADT A102 Introduction to Automotive Technology 3
   - ADT A121 Auto Electrical I 3
   - ADT A131 Auto Electrical II 3
   - ADT A195 Automotive Practicum I (1-6) 6
   - ADT A227 Auto Electrical III 3

2. A total of 18 credits is required for the nontransferred departmental certificate of completion.

B. Automotive Brakes, Suspension and Alignment

1. Complete the following courses:
   - ADT A102 Introduction to Automotive Technology 3
   - ADT A111 Power Trains I 3
   - ADT A131 Auto Electrical II 3
   - ADT A150 Brake Systems 4
   - ADT A162 Suspension and Alignment 4
   - ADT A195 Automotive Practicum I (1-6) 6

2. A total of 23 credits is required for the nontransferred departmental certificate of completion.

C. Automotive Power Trains

1. Complete the following courses:
   - ADT A102 Introduction to Automotive Technology 3
   - ADT A111 Power Trains I 3
   - ADT A114 Power Trains II 3
   - ADT A121 Auto Electrical I 3
   - ADT A131 Auto Electrical II 3
   - ADT A150 Brake Systems 4
   - ADT A282 Power Trains III 3

2. A total of 24 credits is required for the nontransferred departmental certificate of completion.

D. Automotive Engine Performance

1. Complete the following courses:
   - ADT A102 Introduction to Automotive Technology 3
   - ADT A121 Auto Electrical I 3
   - ADT A130 Basic Auto Engines 3
   - ADT A131 Auto Electrical II 3
   - ADT A211 Auto Fuel Systems 4
   - ADT A295 Automotive Practicum II 3
   - ADT A295 Automotive Practicum II 3

2. A total of 25 credits is required for the nontransferred departmental certificate of completion.
ASSOCIATE OF APPLIED SCIENCE,
AUTOMOTIVE TECHNOLOGY

Note: Admission to the AAS degree program in General Automotive Technology currently is suspended. Contact the department for details.

GENERAL PROGRAM

The AAS degree in Automotive Technology requires demonstrated computer competency. Computer competency may be demonstrated in any of the following ways:

- A 3 credit course in a computer language or an introductory course in data processing or microcomputers.
- Work-related experience verifying computer competency as approved by the faculty advisor.
- Self-initiated computer competency as approved by the faculty advisor.

ADMISSION REQUIREMENTS

Specific admission requirements apply to this program. See department for criteria.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td>ADT A102</td>
<td>Introduction to Automotive Technology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ADT A111</td>
<td>Power Trains I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ADT A121</td>
<td>Auto Electrical I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ADT A130</td>
<td>Basic Auto Engines</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>One AAS degree requirement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Second Semester</td>
<td>ADT A114</td>
<td>Power Trains II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ADT A131</td>
<td>Auto Electrical II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ADT A150</td>
<td>Brake Systems</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ADT A162</td>
<td>Suspension and Alignment</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>One AAS degree requirement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Third Semester</td>
<td>ADT A195</td>
<td>Automotive Practicum I (1-6)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>One AAS degree requirement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fourth Semester</td>
<td>ADT A211</td>
<td>Auto Fuel Systems</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ADT A212</td>
<td>Engine Performance</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>One AAS degree requirement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fifth Semester</td>
<td>ADT A225</td>
<td>Auto Heating and A/C</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ADT A227</td>
<td>Auto Electrical III</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ADT A282</td>
<td>Power Trains III (3)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>ADT A295</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Automotive Practicum II (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>One AAS degree requirement</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

2. A total of 66 credits is required for the degree.

FORD ASSET PROGRAM

ADMISSION REQUIREMENTS

Specific admission requirements apply to this program. Student selection occurs up to 3 months prior to the start of the program. Accepted students will have met admission criteria and been selected by a sponsoring Ford, Lincoln, Mercury dealership.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td>ADT A115</td>
<td>Automotive Technology ASSET I</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>One AAS degree requirement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Second Semester</td>
<td>ADT A135</td>
<td>Automotive Technology ASSET II</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>One AAS degree requirement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Third Semester</td>
<td>ADT A215</td>
<td>Automotive Technology ASSET III</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>One AAS degree requirement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fourth Semester</td>
<td>ADT A235</td>
<td>Automotive Technology ASSET IV</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>One AAS degree requirement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fifth Semester</td>
<td>ADT A255</td>
<td>Automotive Technology ASSET V</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>One AAS degree requirement</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

2. A total of 80 credits is required for the degree.

GENERAL MOTORS AUTOMOTIVE SERVICE EDUCATION PROGRAM (ASEP)

ADMISSION REQUIREMENTS

Complete the following application procedures:

1. Instructor approval is required for admission to UAAASEP. Prospective students should provide the UAAASEP instructor with a resume and a copy of their driving record.
2. Admission to UAAASEP requires employment by a sponsoring Alaskan General Motors dealership.
3. Apply for admission to UAAand to the UAAASEP department by contacting the Automotive and Diesel Technology Department, University of Alaska Anchorage, 3211 Providence Drive, Anchorage, Alaska 99508. Telephone (907)786-1461.
4. Have official high school transcripts, or official GED, and any vocational-technical training certificates sent to UAAEnrollment Services, 3211 Providence Drive, Anchorage, Alaska 99508.
5. Present evidence to UAAASEP of math competency equivalent to completion of MATH A055. This may be accomplished by (a) presentation of college transcripts for department evaluation, or (b) by achieving an appropriate score on the math placement test administered by the UAAAdvising and Counseling Center. Call (907) 786-4500 to make arrangements.
6. Demonstrate English language proficiency through appropriate score on English Placement Test administered by UAA Advising and Counseling Center or through presentation of transcripts for Department of English evaluation. Generally, applicants prepared for entry into ENGLA111 have sufficient proficiency for entry into the UAA ASEP.

GENERAL UNIVERSITY REQUIREMENTS
1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science degree requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS
3. Complete the following required courses:
   First Semester (Fall)
   - ADT A102 Introduction to Automotive Technology 3
   - ADT A170 General Motors ASEP 1 9
     One AAS degree requirement 3
   Second Semester (Spring)
   - ADT A171 General Motors ASEP 2 12
     One AAS degree requirement 3
   Third Semester (Summer)
   - ADT A270 General Motors ASEP 3 12
     One AAS degree requirement 3
   Fourth Semester (Fall)
   - ADT A271 General Motors ASEP 4 12
     One AAS degree requirement 3
   Fifth Semester (Spring)
   - ADT A272 General Motors ASEP 5 12
     One AAS degree requirement 3
4. A total of 75 credits is required for the degree.

ASSOCIATE OF APPLIED SCIENCE, DIESEL TECHNOLOGY
The AAS degree in Diesel Technology requires demonstrated computer competency. Computer competency may be demonstrated in any of the following ways:
   a. A 3-credit course in a computer language or an introductory course in data processing or microcomputers.
   b. Work-related experience verifying computer competency as approved by the faculty advisor.
   c. Self-initiated computer competency as approved by the faculty advisor.

ADMISSION REQUIREMENTS
Specific admission requirements apply to this program. See department for criteria.

GENERAL UNIVERSITY REQUIREMENTS
1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

FACULTY
Tol Fishburn, Assoc Professor, AFTMF@uaa.alaska.edu
Emil Remus, Professor, AFEHR@uaa.alaska.edu
Kelly Smith, Instructor, AFKJS@uaa.alaska.edu
AVIATION TECHNOLOGY

The Bachelor of Science degree in Aviation Technology prepares individuals for professional positions within the aviation industry. Related career opportunities are found with airlines, airports, general aviation, government organizations, education, and the aerospace industry.

The program includes university general education requirements and a common set of core courses, which are required for all emphasis areas. The specific interests and career goals of each student determine the remainder of the program. Emphasis areas include Aviation Management, Professional Piloting, and Air Traffic Control.

There are no additional admission requirements. However, students must be able to meet any applicable certification requirements established by the Federal Aviation Administration. A strong background in science, math, and reading skills is highly recommended.

Degree check sheets are available in the Aviation Technology Division office.

ACADEMIC PROGRESS

A grade of a C or higher in each Aviation Technology course is required to graduate with this degree.

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements.

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements (GER) for Baccalaureate Degrees listed at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required core courses (46 credits):
   - AT A100 Private Pilot Ground School 3
   - AT A102 Introduction to Aviation Technology 3
   - AT A133 Aviation Law and Regulations 3
   - AT A233 Aviation Safety 3
   - AT A235 Elements of Weather 3
   - AT A331 Human Factors in Aviation 3
   - AT A415 Company Resource Management 3
   - AT A420 Air Transportation System 3
   - BAA300 Organizational Theory and Behavior 3
   - BAA361 Human Resource Management 3
   - BAA461 Negotiations and Conflict Management 3
   - CIOS A110 Computer Concepts in Business 3
   - CIOS A376 Management Information Systems 3
   - MATH A272 Calculus for Managerial Sciences 3
   - PHYS A123 Basic Physics I 3
   - PHYS A123L Basic Physics I Laboratory 1

2. Complete one of the following three BSAT emphasis areas:

   Aviation Management
   Note: Total credits needed for graduation may increase unless students take at least 12 credits of upper division work in fulfillment of general education requirements and/or emphasis area electives.
   1. Complete the following required courses (21 credits):
      - ACCT A101 Principles of Financial Accounting I 3
      - AT A134 Principles of Aviation Administration 3
      - AT A240 Operations in Flight Service Station 3
      - BAA233 Fundamentals of Financial Management 3
      - CIOS A110 Computer Concepts in Business 3

   Air Traffic Control
   Note: Total credits needed for graduation may increase unless students take at least 12 credits of upper division work in fulfillment of general education requirements and/or emphasis area electives.
   1. Complete the following required courses (36 credits):
      - AT A147 Pilot / Controller Techniques 3
      - AT A143 ATC Regulations 3
      - AT A240 Operations in Flight Service Station 3
      - AT A241 Control Tower Operations 3
      - BAA233 Fundamentals of Financial Management 3
      - ECON A202 Principles of Microeconomics 3

   2. Complete an additional 21 credits of electives. Electives must be approved by a faculty advisor from the Aviation Technology Division.
   3. A total of 122 credits is required for the degree, of which 42 credits must be upper-division.

University of Alaska Anchorage 2000-2001 Course Catalog

www.uaa.alaska.edu
PROFESSIONAL PILOTING

Note: Total credits needed for graduation may increase unless students take at least 9 credits of upper division work in fulfillment of general education requirements and/or emphasis area electives.

The following applies for those students desiring to pursue the Professional Pilotering emphasis.

• Costs for flight training are not included in University tuition and fees.
• Once admitted to the BSAT program, all subsequent flight training applicable to the Professional Pilotering emphasis must be completed through the Aviation Technology Division.
• To obtain credit for pilot certificates/ratings held prior to enrolling at UAA, a student must demonstrate proficiency for each certificate/rating. The proficiency check will be conducted by a representative of the Professional Pilot Program and performance must meet the applicable FAA Pilot Test Standard. It is the student's responsibility to make arrangements for the required flight check(s) and to provide the aircraft.
• Once enrolled in any flight training course, students are expected to complete the course requirements within the equivalent of two semesters. Failure to do so will be considered unsatisfactory progress and will result in a failing (F) grade.

1. Complete the following required courses (33 credits):
   - AT A101 Pre-professional Flying 2
   - AT A116 Instrument Ground School 3
   - AT A126 Instrument Flying 2
   - AT A200 Commercial Ground School 3
   - AT A218 Commercial Flying I 1.5
   - AT A219 Commercial Flying II 1.5
   - AT A220 Commercial Flying III 2
   - AT A232 Aviation Navigation 3
   - AT A300 CFI Ground School 3
   - AT A301 CFI Flying 2
   - AT A332 Transport Aircraft Systems 3
   - AT A362 Aerodynamics & Flight Performance 4
   - ACCT A201 Principles of Financial Accounting 3

2. Complete an additional 9 credits of electives. Electives must be approved by a faculty advisor from the Aviation Technology Division.

3. All students are required to complete at least two advanced flight courses (300-400) in residence to meet graduation requirements.

4. A minimum of 122 credits is required for the degree, of which 42 credits must be upper-division.

MINOR, AVIATION TECHNOLOGY

Students majoring in another discipline who wish to minor in Aviation Technology must complete the following requirements. A total of 18 credits are required for the minor, of which must be upper-division. Students are encouraged to select courses from the following list. However, prior approval of other AT courses may be requested from the Aviation Technology Division.

1. Complete 18 credits from the following: 18
   - AT A100 Private Pilot Ground School 3
   - AT A132 History of Aviation 3
   - AT A133 Aviation Law and Regulations 3
   - AT A147 Pilot/Controller Techniques 3
   - AT A171 Basic Aerodynamics 3
   - AT A172 Publications, Regulations and Records 3
   - AT A177 Reciprocating Engine Theory (2)
   - AT A178 Turbine Engine Theory (2)
   - AT A185/L Sheetmetal Structures and Lab (3/2)
   - AT A233 Aviation Safety (3)
   - AT A235 Elements of Weather (3)
   - AT A285/L Bonded Structures and Lab (4/1)
   - AT A331 Human Factors in Aviation (3)
   - AT A335 Airport Operations (3)
   - AT A336 Air Service Operations (3)
   - AT A362 Aerodynamics and Flight Performance (4)
   - AT A420 Air Transportation Systems (3)
   - AT A431 Aircraft Accident Investigation (3)

AIR TRAFFIC CONTROL

The Air Traffic Control program prepares students for work in the FAA Air Traffic Control system. It also fulfills lower-division requirements for certain baccalaureate degree programs and provides recurrency for personnel in air traffic control. Areas of study include aviation weather, radar environment, air traffic control regulations, and basic responsibilities of first-level field supervisors. Simulated flight training in the department's Link Trainer is featured, and air traffic control students practice controlling airplanes in a lab. Students visit several air traffic control facilities in Anchorage, some of which offer intern programs. The FAA has identified Air Traffic Control as a “Pre-Hire” program which will enhance FAA employment placement to qualified graduates.

The AAS degree may be completed in 4 semesters with a course load of 15 credits each semester. Students with no prior background in aviation should begin course work in the fall semester.

ASSOCIATE OF APPLIED SCIENCE, AIR TRAFFIC CONTROL

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Program Admission Requirements at the beginning of this chapter. UAA has no restrictions on age or physical condition of students. However, students desiring employment with the Federal Aviation Administration should be aware of FAA employment requirements:

1. Class II Medical Certificate is required as depicted in FAR 65.49, and 67 Subpart C.
2. 30-year-old maximum age restriction for students anticipating employment in terminal or en route options.
AVIATION ADMINISTRATION

The Aviation Administration program is designed to provide a technical understanding of the aviation industry and its operations. Individuals currently employed in the industry traditionally take these courses for advancement. Others use the program to achieve entry-level skills.

Classes on specific administrative procedures in aviation have been developed. Major areas include Airport Management, Airline Management, and Air Service Operation Management.

There are no special admission requirements, and the AAS degree may be earned in four semesters if a student completes 12-18 credits per semester. Class time involves 12-20 hours per week. Most classes are scheduled during fall and spring semesters.

This program is one of several programs that can serve as an entry into the Bachelor of Science degree in Technology offered through the Community and Technical College. Interested students should contact the Aviation faculty for details on both programs.

ASSOCIATE OF APPLIED SCIENCE, AVIATION ADMINISTRATION

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Program Admission Requirements at the beginning of this chapter.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter. ENGL212 is recommended.

MAJOR REQUIREMENTS

1. Complete the following required courses:

   Fall Semester
   - AT A100 Private Pilot Ground School 3
   - AT A143 ATC Regulations 3
   - AT A144 ATC Flight Procedures 3
   - AT A235 Elements of Weather 3
   - ENGLA111 Methods of Written Communication 3

   Spring Semester
   - AT A132 History of Aviation 3
   - AT A240 Operations in Flight Service Station 3
   - Elective Social Science, Natural Science, Math, Humanities 3
   - One of the following:
     - AT A133 Aviation Law and Regulations (3)
     - AT A134 Principles of Aviation administration (3)
   - One of the following:
     - CIOS A262 Written Business Communications (3)
     - ENGLA211 Academic Writing About Literature (3)
     - ENGLA212 Technical Writing (3)
     - ENGLA213 Writing for the Social and Natural Sciences (3)

   Fall Semester
   - AT A102 Introduction to Aviation Technology 3
   - AT A147 Pilot/Controller Techniques 3
   - AT A242 ATC Terminal Radar Procedures 3
   - AT A242L ATC Terminal Radar Procedures Lab 1
   - Elective Social Science, Natural Science, Math, Humanities 3
   - One of the following:
     - AT A231 Search, Survival, and Rescue (3)
     - AT A232 Aviation Navigation (3)
     - AT A233 Aviation Safety (3)

   Spring Semester
   - AT A241 Control Tower Operations 3
   - AT A241L Control Tower Operations Lab 1
   - AT A243 ATC Enroute Procedures 3
   - AT A243L ATC Enroute Procedures Lab 1
   - AT A295 Aviation Internship I (1-3)
   - One of the following:
     - COMM A111 Fundamentals of Oral Communication (3)
     - COMM A235 Small Group Communication (3)
     - COMM A237 Interpersonal Communication (3)
     - COMM A241 Public Speaking (3)

2. A total of 60 credits is required for the degree.
AVIATION MAINTENANCE TECHNOLOGY

The Aviation Maintenance Technology program is an FAA-approved and nationally recognized course of study that is designed to prepare graduates for entry-level positions as technicians for general aviation, corporate aviation, airlines or manufacturers. The curriculum offers emphasis on modern aircraft systems such as electronics, composite structures, automatic controls and turbine engines. Graduates are employed worldwide in many phases of aviation. Students may choose to pursue an FAMechanic’s certificate with airframe and powerplant ratings or an Associate of Applied Science degree in Aviation Maintenance Technology.

Successful progress through the AMT program requires that all students have minimum algebra proficiency at the MATH 055 level (MATH A105 recommended, see application procedures below). Math courses should be taken prior to entry into the AMT program; however, under some circumstances, the course may be taken during the first semester along with certain other aviation maintenance courses. Taking courses out of sequence will probably extend the program beyond its normal length. Students in the certificate or degree program who take courses out of sequence are enrolled on a space-available basis. Many AMT courses have prerequisites. Faculty permission is required prior to registration for any AMT course.

The AAS degree is an FAAAirway Science recognized program and requires 22 credits beyond the certificate program. Students with no prior college level courses should plan to attend full-time for 6 semesters to complete the AAS degree in Aviation Maintenance Technology.

AMT students may continue their studies while pursuing a Bachelor of Science in Technology degree at UAA. Other universities offering baccalaureate degrees in Aviation Maintenance Technology or related fields (Aircraft Maintenance Engineering, Aircraft Maintenance Management, etc.) accept credits, certificates, and degrees earned at UAA to apply to their four-year degrees. The actual number of credits that transfer and how they apply to the degree are determined by the receiving institution. Those intending to pursue a four-year degree in Aviation Maintenance Technology are urged to discuss their plans with an AMT faculty advisor.

AAS degree candidates who have completed an FAAapproved program in aviation maintenance at an accredited institution, and who have passed all courses in the major field with a grade of “C” or better, and who currently hold a valid FAMechanic’s certificate with airframe and powerplant ratings may, with the approval of the department, substitute that certificate and training for all or a portion of the major degree requirements for the AAS degree in Aviation Maintenance Technology.

ADMISSION REQUIREMENTS, CERTIFICATE AND DEGREE

Complete the following application procedures:

1. Apply for admission to UAA and to the AMT program by contacting the Aviation Maintenance Technology (AMT) program, University of Alaska Anchorage, 2811 Merrill Field Drive, Anchorage, Alaska 99501. Telephone: (907) A264-7400.

2. Have official high school transcripts, or official GED, and any vocational-technical training certificates sent to UAA Enrollment Services.

3. Present evidence to the AMT program of math competency equivalent to completion of MATH 055. This may be accomplished by:
   a. presentation of college transcripts for department evaluation, or
   b. by attaining an appropriate score on a PHYS A110 entrance exam administered by the UAA Advising and Counseling Center. (Please call (907) 786-4500 to make arrangements.)

4. Demonstrate English language proficiency through appropriate score on English Placement Test administered by UAA Advising and Counseling Center or through presentation of transcripts for department evaluation. Generally, applicants prepared for entry into ENGLA108-109 have sufficient proficiency for entry into the AMT program.

CERTIFICATE, AVIATION MAINTENANCE TECHNOLOGY

ADMISSION REQUIREMENTS

See Admission Requirements, Certificate and Degree above.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses:

   AT A170  Acft Ground Operations and Safety  1
   AT A171  Basic Aerodynamics                   3
   AT A172  Publications, Regulations and Records 3
   AT A173  Acft Electrical Hardware            3
   AT A174  Acft DC Electrical Systems          3
   AT A174L Acft DC Electrical Systems Lab      1
   AT A175  Drawing and Precision Measurement   2
   AT A176  Acft Materials and Processes I      2
   AT A177  Recip Engine Theory                 2
   AT A178  Turbine Engine Theory               2
   AT A181  Fuel Systems                        3
   AT A181L Fuel Systems Lab                    1
   AT A183  Acft Electrical Machinry            2
   AT A183L Acft Electrical Machinry Lab        1
   AT A184  Acft AC Electrical Systems          3
   AT A184L Acft AC Electrical Systems Lab      1
   AT A185  Sheetmetal Structures               3
   AT A185L Sheetmetal Structures Lab           2
   AT A186  Non-destructive Inspection Methods  3
   AT A187  Recip Engine Overhaul               3
   AT A187L Recip Engine Overhaul Lab           2
   AT A273  Fluid Power Systems                 3
   AT A273L Fluid Power Systems Lab             2
   AT A274  Acft Electronic Systems             5
   AT A274L Acft Electronic Systems Lab         1
   AT A276  Propeller Systems                   1
   AT A277  Recip Engine Installation and Operations 3
   AT A277L Recip Engine Installation and Operations Lab 2
   AT A279  Turbine Engine Repair and Overhaul  3
   AT A279L Turbine Engine Repair and Overhaul Lab 1
   AT A283  Acft Auxiliary Systems              3
   AT A283L Acft Auxiliary Systems Lab          1
   AT A285  Bonded Structures                   4
   AT A285L Bonded Structures Lab               1
   AT A286  Acft Materials and Processes II     2
   AT A289  Turbine Engine Installation and Operations 2
   AT A289L Turbine Engine Installation and Operations Lab 2
   AT A364  Avionics Systems                    3
   AT A367  Acft Assembly and Inspections        4
   AT A367L Acft Assembly and Inspections Lab    2

2. A total of 91 credits is required for the certificate.
ASSOCIATE OF APPLIED SCIENCE,
AVIATION MAINTENANCE TECHNOLOGY

ADMISSION REQUIREMENTS
1. Satisfy all requirements for admission to the certificate program.
2. This degree requires two special competencies:
   A. Computer competency which may be demonstrated in one of the following ways:
      1. A 3 credit course in a computer language or an introductory course in data processing or microcomputers.
      2. Work-related experience verifying computer literacy as approved by the faculty advisor.
      3. Self-initiated computer literacy as approved by the faculty advisor.
   B. An overview of aviation demonstrated in one of the following ways:
      1. Satisfactorily complete AT A100 or AT A132.
      2. Possess an FAAPrivacy Pilot certificate.
      3. Present evidence of passing the FAAPrivacy Pilot written exam.

GENERAL UNIVERSITY REQUIREMENTS
1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS
1. Complete the following required courses (91 credits):
   - AT A170 Acft Ground Operations and Safety 1
   - AT A171 Basic Aerodynamics 3
   - AT A172 Publications, Regulations and Records 3
   - AT A173 Acft Electrical Hardware 3
   - AT A174 Acft DC Electrical Systems 3
   - AT A174L Acft DC Electrical Systems Lab 1
   - AT A175 Drawing and Precision Measurement 2
   - AT A176 Acft Materials and Processes I 2
   - AT A177 Recip Engine Theory 2
   - AT A178 Turbine Engine Theory 2
   - AT A181 Fuel Systems 3
   - AT A181L Fuel Systems Lab 1
   - AT A183 Acft Electrical Machinery 2
   - AT A183L Acft Electrical Machinery Lab 1
   - AT A184 Acft AC Electrical Systems 3
   - AT A184L Acft AC Electrical Systems Lab 1
   - AT A185 Sheetmetal Structures 3
   - AT A185L Sheetmetal Structures Lab 2
   - AT A186 Non-destructive Inspection Methods 3
   - AT A187 Recip Engine Overhaul 3
   - AT A187L Recip Engine Overhaul Lab 2
   - AT A273 Fluid Power Systems 3
   - AT A273L Fluid Power Systems Lab 2
   - AT A274 Acft Electronic Systems 5
   - AT A274L Acft Electronic Systems Lab 1
   - AT A276 Propeller Systems 1
   - AT A277 Recip Engine Installation and Operations 3
   - AT A277L Recip Engine Installation and Operations Lab 2
   - AT A279 Turbine Engine Repair and Overhaul 3
   - AT A279L Turbine Engine Repair and Overhaul Lab 1
   - AT A283 Acft Auxiliary Systems 3
   - AT A283L Acft Auxiliary Systems Lab 1
   - AT A285 Bonded Structures 4
   - AT A285L Bonded Structures Lab 1
   - AT A286 Acft Materials and Processes II 2
   - AT A289 Turbine Engine Installation and Operations 2
   - AT A289L Turbine Engine Installation and Operations Lab 2
   - AT A364 Avionics Systems 3
   - AT A367 Acft Assembly and Inspections 4
   - AT A367L Acft Assembly and Inspections Lab 2

2. Complete the following (13 credits):
   - Humanities elective* 3
   - Social Sciences elective (PSYA111 recommended). 3
   - MATH A105 Intermediate Algebra 3
   - PHYS A110 Physics for Technicians 4

3. A total of 113 credits is required for the degree.

*Any English courses used to satisfy the Humanities general requirement must be different from the written communications requirement and have a course number higher than ENGL A111.

PROFESSIONAL PILOTING
The Professional Piloting program is a course of study designed to prepare graduates for entry-level pilot positions in the aviation industry. In addition to the required major specialty courses, graduates are required to fulfill the General University Requirements and the General Education Requirements and Associate of Applied Science Requirements. Ground school and flight courses required for the degree are approved under Federal Aviation Regulations, Part 141.

There are no special admission requirements. However, students must be able to meet all certification requirements established by the Federal Aviation Administration. Strong math and reading abilities are highly recommended.

Students must be formally admitted to the university, and have declared Professional Piloting as their Associate of Applied Science degree or the Bachelor of Science degree in Technology as their intended program major. The Associate of Applied Science degree may be completed in four semesters. Regular attendance is required in all university academic courses, and mandatory in those ground schools operated under Part 141 of the Federal Aviation Regulations. Flight training courses are “open entry-open exit” and may be registered for any time during the semester: fall, spring, or summer. Costs for flight training are not included in tuition and fees. These costs are in addition to normally charged university tuition and fees.

Once formally enrolled at the University of Alaska Anchorage (UAA), all subsequent flight training must be completed in residence at UAA. Flight training through other programs while enrolled at UAAis not permitted. Enrolled students who receive flight training outside UAAthat is required under specific curricula will not receive credit for the corresponding UAAcourses.

To obtain credit for pilot certificates/ratings held prior to enrolling at UAA, a student will be required to demonstrate proficiency for each certificate/rating. The proficiency check will be completed by a representative of the flight training department before credit will be allowed to satisfy UAAcurriculum requirements. Military pilots currently, or within the preceding 12 months, on active flight status may petition to have appropriate curriculum requirements awarded without a proficiency check. It is the student’s responsibility to make arrangements for the required flight check(s). However, all students are required to complete one advanced flight course while enrolled at the University of Alaska Anchorage.
ACADEMIC PROGRESS

A grade of "C" or higher in all Aviation Technology courses is required to graduate with this degree. Once enrolled in any flight training course, students are expected to complete the course requirements in the equivalent of two semesters. Failure to do so will be considered unsatisfactory progress and will result in a failing grade.

ASSOCIATE OF APPLIED SCIENCE, PROFESSIONAL PILOTING

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements.
2. Complete the Associate of Applied Science requirements listed at the beginning of this chapter. Some of the major requirements will also fulfill associate of applied science degree general requirements. Students should coordinate choices carefully with their academic advisor in the Professional Piloting department.

MAJOR REQUIREMENTS

Note: Courses preceded by an asterisk also will fulfill associate of applied science degree general requirements.

1. Complete the following foundation courses (24-25 credits):
   - *COMM A235 Small Group Communication (3) 3
   - or
   - *COMM A241 Public Speaking (3) 3
   - *ENGLA111 Methods of Written Communication 3
   - *ENGLA212 Technical Writing 3
   - *MATH A105 Intermediate Algebra (3) 3-4
   - or
   - *MATH A107 College Algebra (4) 4
   - VE A301 Principles of Technology 3
   - *PHILA101 Introduction to Logic 3
   - *CS A100 Introduction to Computers (3) 3
   - or
   - CIOS A110 Computer Concepts in Business (3) 3
   - *Complete one Social Science elective (PSYA111 General Psychology recommended) 3

2. Complete the following required Aviation Technology courses (39 credits):
   - AT A100 Private Pilot Ground School 3
   - AT A101 Pre-Professional Flying 2
   - AT A102 Introduction to Aviation Technology 3
   - AT A116 Instrument Ground School 3
   - AT A126 Instrument Flying 2
   - AT A132 History of Aviation 3
   - AT A133 Aviation Law and Regulations 3
   - AT A200 Commercial Ground School 3
   - AT A218 Commercial Flying I 1.5
   - AT A219 Commercial Flying II 1.5
   - AT A220 Commercial Flying III 2
   - AT A231 Search, Survival, and Rescue 3
   - AT A233 Aviation Safety 3
   - AT A235 Elements of Weather 3
   - AT A236 Management: Airline 3

2. A total of 63-64 credits is required for the degree.

FACULTY

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Lou Nagy, Assistant Professor, AFLN@uua.alaska.edu
Robert Pearson, Professor, AFREP@uua.alaska.edu
Kenneth Weyand, Professor, AFKBW@uua.alaska.edu
This two-year degree program trains students in maintenance and repair of digital/computer equipment including computer circuitry, hands-on maintenance, electronic fundamentals and programming. Students are prepared for employment as computer technicians, field service representatives, and other jobs requiring electronic skills.

ASSOCIATE OF APPLIED SCIENCE,
COMPUTER ELECTRONICS

The Computer Electronics program is offered only at Kenai Peninsula College.

ADMISSION REQUIREMENTS

1. ASSET placement at the MATH A100 entry-level or above.
2. ASSET placement for reading at the ENGLA110 level or above.
3. Students placing below these math and reading levels on ASSET must see a faculty advisor in computer electronics prior to registering for computer electronics courses.

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.

COMMUNICATION AND GENERAL REQUIREMENTS

1. Communication Requirements
   - ENGLA111 Methods of Written Communication 3
   - ENGLA212 Technical Writing 3
   - COMM A111 Fundamentals of Oral Communication 3

2. General Requirements
   - MATH A101 Technical Mathematics 3
   - MATH A105 Intermediate Algebra 3
   - PHYS A123/L Basic Physics I (4) and
   - PHYS A124/L Basic Physics II (4)
   or
   - PHYS A115 Physical Science I for Technicians (4) and
   - PHYS A116 Physical Science II for Technicians (4)

MAJOR REQUIREMENTS

1. Complete the following required courses (35 credits):
   - CIO5 A110 Computer Concepts in Business 3
   - CS A105 FORTRAN Programming (3) 3
   - or
   - CS A107 Pascal Programming (3)
   - or
   - CS A207 C Programming (3)
   - ET A101 Basic Electronics: DC Physics 4
   - ET A102 Basic Electronics: AC Physics 4
   - ET A126 Principles of Logic and Gating 4
   - ET A175 Technical Introduction to Microprocessors 3
   - ET A240 Application of Integrated Circuits 3
   - ET A241 Microcomputer Interfacing 3
   - ET A242A/B Computer Peripheral Devices 4
   - ET A245 Basic Electronics 4

2. Electives

3. A total of 60 credits is required for the degree.
ASSOCIATE OF APPLIED SCIENCE, CULINARY ARTS

ADMISSION REQUIREMENTS
See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

DEPARTMENT APPLICATION REQUIREMENTS
1. Contact the Culinary Arts department by calling (907) 786-4728, for an appointment with a faculty advisor to plan a personal program of study.
2. Request an admission and advising packet. Complete and return the application form to the department. This form opens an individual student portfolio, which is used to advise and counsel students throughout their program of study, and to contain important career planning and placement materials.
3. Contact UAA Advising and Counseling Center (786-4500) to schedule and take the ASSET test of basic math and language arts skills. Place a copy of the results in the department portfolio. SAT, ACT and other postsecondary transcripts may also be submitted to the department. These records will be used for advising only.
4. Full-time and part-time students must successfully complete the 12 credit core curriculum as a prerequisite to enrolling in culinary and bakery skill development laboratory courses. The core consists of the following courses (note each course must be completed with a grade of “C” or higher):
   - CAA102 Nutrition 3
   - CAA104 Sanitation 2
   - CAA105 Principles of Food Science 3
   - CAA107 Culinary Cost Control 2
   - CAA110 Quantity Food Purchasing 2

COMPUTER COMPETENCY REQUIREMENT
The AAS in Culinary Arts requires demonstrated computer competency evidenced by any of the following:
1. A 3 credit or equivalent course using one or more of the following applications: wordprocessing, spreadsheets, databases, and communications, or an introductory course in data processing or microcomputers.
2. Participate in a work related experience whereby faculty or employer can verify computer competency.
3. Undertake a self-initiated, independent effort to develop computer competency as approved by faculty advisor.

GENERAL UNIVERSITY REQUIREMENTS
1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS
1. Complete the following required courses (37 credits):
   - CAA102 Nutrition 3
   - CAA103 Culinary Skill Development 4
   - CAA104 Sanitation 2
   - CAA105 Principles of Food Science 3
   - CAA107 Culinary Cost Control 2
   - CAA110 Quantity Food Purchasing 2
   - CAA111 Bakery Skill Development 4
   - CAA201 A la Carte Kitchen 4
   - CAA202 Advanced Bakery 4
   - CAA224 Hospitality Service 3
   - CAA230 Foodservice Management 3
   - CAA295C Foodservice Internship 3
2. Complete a minimum of 8 credits from the following: 8
   - CAA113 Culinary Meats and Charcuterie (3)
   - CAA114 Beverages (2)
   - CAA220 Foodservice Operations (3)
   - CAA223 Advanced Foods: Buffet and Garde Manger (3)
   - CAA225 Menu Making/Facility Layout and Design (3)
   - *CAA490 Current Topics in Foodservice and Nutrition (1-6)

*B Only 3 credits of CAA490 may be applied to the AAS Culinary Arts degree.
3. A total of 60 credits is required for the degree.

BACHELOR OF ARTS,
HOSPITALITY AND RESTAURANT MANAGEMENT

ADMISSION REQUIREMENTS
See the beginning of this chapter for information on formal admission to baccalaureate degree programs.

DEPARTMENT ADMISSION REQUIREMENTS
1. Contact the Culinary Arts and Hospitality Division by calling 786-4728, for an appointment with a faculty advisor to plan a personal program of study.
2. Request an admission and advising packet. Complete and return the application form to the department. This form opens an individual student portfolio which is used to advise students throughout their program of study and to contain important career planning and placement materials.
3. Contact UAA Advising and Counseling Center (786-4500) to schedule and take the ASSET test of basic math and language arts skills. Place a copy of the results in the department portfolio. SAT, ACT and other postsecondary transcripts may also be submitted to the department. These records will be used for advising only.
**Computer Literacy Requirement**

The department requires that Hospitality and Restaurant Management students attain a basic level of computer competency either before they enter the program or early in their studies. Basic competency is demonstrated by the ability to use wordprocessing, spreadsheets, databases and communications programs. Consistent with industry performance standards, each of the core theory courses includes at least one activity that requires using a computer program. Students may develop or enhance computer competency by any of the following means:

a. Enroll in a 3 credit or equivalent course using one or more of the following applications: wordprocessing, spreadsheets, databases, and communications, or an introductory course in data processing or microcomputers.

b. Participate in a work-related experience whereby faculty or employer can verify computer competency.

c. Undertake a self-initiated, independent effort to develop computer competency as approved by faculty advisor.

**Graduation Requirements**

Students must complete the following graduation requirements:

**A. General University Requirements**

Complete the General University Requirements (GUR) for Baccalaureate Degree Programs at the beginning of this chapter.

**B. General Education Requirements**

Complete the General Education Requirements (GER) for Baccalaureate Degree Programs located at the beginning of this chapter. Students are encouraged to coordinate their course selection with their program advisor. Some courses that may fulfill general education requirements and baccalaureate requirements are prerequisites to required business core courses. To avoid taking additional courses later, it is highly recommended students complete: ECON A201 and ECON A202, ENVI A202, FREN A101 and FREN A102 or SPAN A101 and SPAN A102, and MATH A107, SOC A101 and PSYA111.

**C. Major Requirements**

1. **Culinary Core**

Complete all of the following courses (30 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA A102</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>CA A103</td>
<td>Culinary Skill Development</td>
<td>4</td>
</tr>
<tr>
<td>CA A104</td>
<td>Sanitation</td>
<td>2</td>
</tr>
<tr>
<td>CA A105</td>
<td>Principles of Food Science</td>
<td>3</td>
</tr>
<tr>
<td>CA A107</td>
<td>Culinary Cost Control</td>
<td>2</td>
</tr>
<tr>
<td>CA A110</td>
<td>Quantity Food Purchasing</td>
<td>2</td>
</tr>
<tr>
<td>CA A111</td>
<td>Bakery Skill Development</td>
<td>4</td>
</tr>
<tr>
<td>CA A201</td>
<td>A la Carte Kitchen</td>
<td>4</td>
</tr>
<tr>
<td>CA A224</td>
<td>Hospitality Service</td>
<td>3</td>
</tr>
<tr>
<td>CA A225</td>
<td>Menu Making/Facility Layout and Design</td>
<td>3</td>
</tr>
</tbody>
</table>

2. **Business Core**

Complete all of the following courses (30 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT A201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT A202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT A316</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>AS A252</td>
<td>Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BAA300</td>
<td>Organizational Theory and Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BAA343</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BAA361</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BAA310</td>
<td>Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BAA463</td>
<td>Promotion Management</td>
<td>3</td>
</tr>
<tr>
<td>CIO5 A110</td>
<td>Computer Concepts in Business</td>
<td>3</td>
</tr>
</tbody>
</table>

3. **Hospitality and Restaurant Management Core**

Complete a minimum of 24 upper division (300 or higher) credits at NAU or a minimum of 27 upper division credits at UNLV. Note: Students MUST complete the General University Requirements, the Baccalaureate General Education Requirements, the Culinary Core and the Business Core before they complete the Hospitality and Restaurant Management Core. Also, to ensure admission, students MUST apply to transfer to NAU or UNLV one semester before they plan to attend. UNLV requires transfer students to have an overall GPA of 2.5. Choose either NAU or UNLV:

**Northern Arizona University (NAU)**

1. Complete the following (15 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA335</td>
<td>Hospitality Law</td>
<td>3</td>
</tr>
<tr>
<td>HA345</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>HA355</td>
<td>Food and Beverage Cost Control</td>
<td>3</td>
</tr>
<tr>
<td>HA400</td>
<td>Hospitality Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>HA490</td>
<td>Senior Seminar (last semester at NAU)</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Complete three courses from the following (9 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA340</td>
<td>Beverage and Bar Operations (3)</td>
<td>3</td>
</tr>
<tr>
<td>HA390</td>
<td>International Hospitality Operations (3)</td>
<td>3</td>
</tr>
<tr>
<td>HA401</td>
<td>Resort Management (spring semesters) (3)</td>
<td>3</td>
</tr>
<tr>
<td>HA411</td>
<td>Club Management (spring semesters) (3)</td>
<td>3</td>
</tr>
<tr>
<td>HA435</td>
<td>Hospitality Litigation (fall semesters) (3)</td>
<td>3</td>
</tr>
<tr>
<td>HA477</td>
<td>Casino Management (fall semesters) (3)</td>
<td>3</td>
</tr>
</tbody>
</table>

**University of Nevada Las Vegas (UNLV)**

1. Complete the following (27 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMD 114</td>
<td>Lodging Operations</td>
<td>3</td>
</tr>
<tr>
<td>HMD 312</td>
<td>Exec. Planning/ Housekeeping Operations</td>
<td>3</td>
</tr>
<tr>
<td>HMD 395</td>
<td>Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>HMD 401</td>
<td>Hotel Law</td>
<td>3</td>
</tr>
<tr>
<td>HMD 410</td>
<td>Hospitality Security/Preservation of Assets</td>
<td>3</td>
</tr>
<tr>
<td>TCA311</td>
<td>Destination Management</td>
<td>3</td>
</tr>
<tr>
<td>TCA379</td>
<td>Catering Sales and Operations</td>
<td>3</td>
</tr>
<tr>
<td>TCA385</td>
<td>Convention Service Management</td>
<td>3</td>
</tr>
<tr>
<td>HMD or TCA</td>
<td>Elective (300 level or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

4. Internship Requirement

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAA495</td>
<td>Hospitality Internship</td>
<td>6</td>
</tr>
</tbody>
</table>

5. A total of 124 credits (if NAU selected), or a total of 127 credits (if UNLV selected) is required for the degree of which 42 must be upper division.
NONTRANSCRIPTED DEPARTMENTAL
CERTIFICATE OF COMPLETION, DIETARY MANAGER

A Dietary Manager is a skilled and experienced generalist capable of assuming responsibility for all aspects of foodservice operations in consultation with a Registered Dietitian. Dietary Managers are employed by hospitals, nursing homes, schools, hotels, correctional facilities, pipeline camps, child care centers, senior citizen meal programs, and residential or retirement centers. The Joint Commission on the Accreditation of Health Care Organizations requires all hospital and nursing home foodservice supervisors to be Certified Dietary Managers.

The Dietary Manager component of the Culinary Arts program at UAA is a twenty credit group of courses designed to provide quality education and training to individuals currently employed in the foodservice industry or for college students who have completed Culinary Arts courses. One hundred and ninety hours of on-the-job work experience in health care related institutional foodservice is required by the Dietary Managers Association. The lectures are enhanced by the practicum experiences that reinforce foodservice skills, managerial operations, and nutritional care applications.

This program is accredited by the Dietary Managers Association of Lombard, Illinois. Upon completion, the student is eligible to: (1) apply for membership in the Dietary Managers Association (DMA) and (2) take the DMA certification examination.

ADMISSION REQUIREMENTS

STUDENTS MUST COMPLETE THE FOLLOWING ADMISSION PROCEDURE:

1. Submit proof of graduation from high school or equivalent (GED).
2. Submit completed application form (obtained from Culinary Arts, (907-786-4728).
3. Request official transcripts from high school (and college, if applicable). Send to:
   UAA Dietary Manager Program
   Culinary Arts and Hospitality
   Cuddy Center 108
   3211 Providence Drive
   Anchorage AK 99508
   Please call: (907)786-4728
4. Schedule ASSET screening test with Testing Coordinator, Advising and Counseling Center, please call (907)786-4500. The Center forwards test results to the Culinary Arts Office. If test score is low, remedial course work will be recommended.

Application to the program may be made at any time. Certain courses may be offered every two years. For more information, contact the Culinary Arts Program at (907)786-4728.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses (20 credits):
   - CAA102 Nutrition 3
   - CAA104 Sanitation 2
   - CAA105 Principles of Food Science 3
   - CAA107 Culinary Cost Control 2
   - CAA220 Foodservice Operations 3
   - CAA230 Foodservice Management 3
   - CAA295A Foodservice Operations Practicum 1.5
   - CAA295B Foodservice Management Practicum .5
   - DNA150 Introduction to Diet Therapy 1
   - DNA195 Nutritional Care Practicum 1

2. A total of 20 credits is required for the nontranscripted departmental certificate of completion.

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Dean Radcliff, Term Instructor, AFDR@uaa.alaska.edu
DENTAL ASSISTING

Allied Health Sciences Building (AHS), Room 158, (907) 786-6929

If you like helping people, enjoy working with your hands as well as your mind, and want a job with responsibility, a career in dental assisting may be for you.

The Dental Assisting program prepares students to become skilled members of the dental health care team. Assistants greatly increase the efficiency of the dentist in the delivery of oral health care and are valuable members of the dental care team.

The duties of the dental assistant are among the most comprehensive and varied in the dental office. The dental assistant performs a wide range of tasks requiring both interpersonal and technical skills. Some specific tasks dental assistants may perform include: assisting the dentist provide oral health care during a variety of procedures; exposing and processing radiographs (x-rays); recording the patient’s medical history and vital signs; preparing and sterilizing the proper instruments and equipment for the dentist’s use; providing the patient with post-operative instructions following surgery or some other type of dental treatment; showing patients how to brush and floss; making impressions of patients’ teeth for study casts; performing office management tasks, such as scheduling appointments, answering the telephone, billing, and inventory control; and performing basic procedures in the dental office laboratory, such as trimming models, polishing appliances, and fabricating temporaries.

Since most dentists employ two or three dental assistants, employment opportunities in this field are widespread. Many types of practice settings are available to dental assistants. For example, an assistant may choose to work in a private practice or a group practice. In addition, an assistant can work in a general dentistry or specialty practice, such as oral and maxillofacial surgery, orthodontics, endodontics, periodontics, prosthodontics, or pediatric dentistry. Job opportunities also exist in public health facilities, federal government facilities, hospitals, dental school clinics, insurance companies, and vocational schools or community colleges and universities teaching others to become dental assistants.

There are many advantages to a career in dental assisting. Dental assisting is a real challenge, demanding versatility and a willingness to assume responsibility for a variety of different tasks. If you want outstanding working conditions where you will be in demand, dental assisting may be a career for you.

The Dental Assisting program is an 8-month program of classroom instruction and clinical experience. A certificate of completion is awarded after fulfilling requirements of this program. In addition, an associate of applied science degree is available for graduates who wish to complete additional courses required for a degree. A faculty advisor in the Dental Assisting program should be consulted prior to entry in the program.

The Dental Assisting program is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the United States Department of Education. As a result of this, graduates are eligible to take the Dental Assisting National Board examination in General Chairsides Assisting and upon successful completion will become Certified Dental Assistants.

ADMISSION TO THE PROGRAM

Special admission requirements and screening procedures are required. It is strongly recommended that interested individuals contact the advisor in the Department of Dental Assisting to review procedures and requirements for admission.

PREREQUISITES

Graduation from high school or equivalent (GED).

APPLICATION PROCEDURE

1. Complete a dental assisting application form and mail to the address below.
2. Request official transcripts from high school (and college, if applicable). Send to:
   UAA Dental Assisting Program
   Allied Health Sciences Building, Room 160
   3211 Providence Drive
   Anchorage AK 99508-4670
   Please call: (907) 786-6929 or (907) 786-6936
3. Contact UAA’s Advising and Counseling Center at
   (907) 786-4500 to schedule the required testing for admission to the Dental Assisting program. The center will forward test results to the Dental Assisting program. If test scores are low, additional course work will be recommended to help you achieve your goal of completing the Dental Assisting program.
4. Request two letters of recommendation to be sent to the Dental Assisting program. Preferably these letters should come from former or current employers or instructors. The letters must include comments on applicant’s ability, motivation, interpersonal skills, communication skills, and work habits.
5. The information listed above must be in applicant’s file before they will be considered for enrollment in the program in the fall semester of the year applying.

Applications to the program may be made at any time; however, for enrollment in the fall semester, application must be completed by August 1. Applicants are encouraged to apply as early as possible so they can complete classes identified by test results as being necessary for successful completion of the program.

Selection Criteria - Applicants are selected for admission based upon their test scores, grades in high school and college, ability to complete the application process, and dental assisting experience. If test results are low and classes are recommended to improve reading comprehension levels, applicants will be advised and proof of successful course completion must be provided prior to acceptance into the program.
CERTIFICATE, DENTAL ASSISTING

ADMISSION REQUIREMENTS

See admission to the program and application procedure above.

CERTIFICATE REQUIREMENTS

1. Complete the following required courses (36 credits):
   - DAA110 Dental Radiography 4
   - DAA121 Chairside Procedures I 6
   - DAA122 Chairside Procedures II 8
   - DAA123 Biomedical Sciences for Dental Assistants 4
   - DAA124 Dental Materials and Application I 2
   - DAA125 Dental Materials and Application II 2
   - DAA126 Dental Sciences for Dental Assistants 1
   - DAA127 Dental Practice Management and Professionalism 3
   - DAA128 Dental Communication Skills 2
   - DAA195A Dental Assisting Practicum I 1
   - DAA195B Dental Assisting Practicum II 3

2. A total of 36 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, DENTAL ASSISTING

ADMISSION REQUIREMENTS

See admission to the program and application procedure.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.

2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses (46 credits):
   - DAA110 Dental Radiography 4
   - BIOLA102 Introductory Biology (3) and
     BIOLA103 Introductory Biology Laboratory (1) or
     BIOLA105 Fundamentals of Biology I (4)
   - DAA121 Chairside Procedures I 6
   - DAA122 Chairside Procedures II 8
   - DAA123 Biomedical Sciences for Dental Assistants 4
   - DAA124 Dental Materials and Application I 2
   - DAA125 Dental Materials and Application II 2
   - DAA126 Dental Sciences for Dental Assistants 1
   - DAA127 Dental Practice Management and Professionalism 3
   - DAA128 Dental Communication Skills 2
   - DAA195A Dental Assisting Practicum I 1
   - DAA195B Dental Assisting Practicum II 3
   - DN A203 Normal Nutrition (3) or
     CAA102 Nutrition (3)
   - PSYA100 Understanding People (3) or
     PSYA150 Human Development (3) or
     PSY/HUMS A153 Human Relations (3)

2. Electives to total 60 credits.

3. A total of 60 credits is required for the degree.

FACULTY

Nancy Bish, Associate Professor, AFNKB@uaa.alaska.edu
Ellen Kazor, Professor, AFEDK@uaa.alaska.edu
Susan Luethge, Associate Professor, AFSEL@uaa.alaska.edu
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DENTAL HYGIENE

Allied Health Sciences Building (AHS), Room 160, (907) 786-6929

The registered dental hygienist is a licensed oral health educator and clinical operator who, as an auxiliary to the dentist, uses preventive, educational, and therapeutic methods which aid individuals and groups to attain and maintain optimum oral health. Dental hygiene services are utilized in general and specialty dental practices, in the armed services, and in programs for research, professional education, public health, school health, industrial health, and institutional and hospital care.

Clinical dental hygiene requires the ability to sit for long periods of time, good to excellent eye-hand coordination, and excellent fine hand motor skills. Dental Hygienists are exposed to bacteria and viruses. Use of protective glasses, face masks and surgical type gloves is required.

The Dental Hygiene program is accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the United States Department of Education. The Associate of Applied Science degree is a three-year endeavor comprising one year of science and general education courses and two years of course work in dental hygiene. The program prepares graduates clinically and academically to take the National and Western Regional Examining Boards for licensure.

The Dental Program application form asks a question concerning conviction of a misdemeanor felony. While conviction of a felony does not automatically bar a student from consideration for or selection to the Dental Hygiene program, conviction of a felony within five years of licensure application is evidence of unacceptable moral character and may result in denial of licensure. (Alaska Statutes 28.910, June, 1998).

Due to the nature of the work of the dental hygienist, students are not permitted to work in the laboratory or clinic when under the influence of intoxicants, drugs or medications affecting psychomotor responses. Students suspected of substance abuse may be subjected to a drug test.

Possible transfer of credits is available to graduates of an ADA accredited dental assisting program. Contact the Dental Hygiene program advisor for details.

Expenses beyond tuition generally include activity fees, instruments, uniforms, lab fees, student organization membership, graduation pin, immunizations, cost of a yearly BLS class, licensure fees, student health insurance, and malpractice insurance for the Western Regional Examining Boards.

Once enrolled as a dental hygiene student, the student can anticipate a four-semester, 40-hour-per-week endeavor. Some evening classes and clinics are scheduled. Students are responsible for securing both adult and child volunteers to satisfy clinical requirements.
ASSOCIATE OF APPLIED SCIENCE, DENTAL HYGIENE

ADMISSION REQUIREMENTS

Special admission requirements and application procedures are required. Selection criteria change periodically. Applicants must contact the department for the selection criteria for the year they wish to apply. Completion of the admission requirements does not guarantee selection into the Dental Hygiene program.

1. Applicants must meet with the Dental Hygiene Program advisor regarding application and program admission requirements prior to application deadline.
2. Graduation from high school or equivalent.
3. Documentation from official transcripts showing successful completion of the following science courses with a cumulative GPA of at least a 2.5: CHEM A103/ A103L, CHEM A104/ A104L, BIOLA111, BIOLA112, BIOLA240. Courses must be completed by the application deadline.
4. Documentation from official transcripts showing successful completion of the following general requirements courses with a cumulative GPA of at least a 2.5: HUMS/PSYA153 or PSY A111, SOC A101, ENGLA111, COMM A111 (or COMM A235 or COMM A237 or COMM A241). Courses must be completed by the application deadline.

Application Procedure:

To be considered for admission, the application process must be completed by May 20th for acceptance into the program beginning in the fall of the same year.

1. Complete the Dental Hygiene program application and submit to the address below.
2. Provide proof of admittance into the University of Alaska Anchorage.
3. Request official transcripts be sent to the Dental Hygiene program to provide proof of completion of the courses listed under Admission Requirements 3 and 4.

Information and applications can be obtained by contacting:
UAADental Hygiene Program
Allied Health Sciences Building, Room 160
3211 Providence Drive
Anchorage AK  99508-4670
Please call:  (907) 786-6929 or (907) 786-6936

Immunizations and Basic Life Support (BLS) certification are required by November of the first year enrolled in clinical courses. BLS certification and immunizations must be current throughout the program.

ACADEMIC PROGRESS

Students must earn at least 75 percent or higher in each dental hygiene course.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter. (ENGLA212 is recommended.)

MAJOR REQUIREMENTS

1. Complete the following required courses:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>DAA110 Dental Radiography 4</td>
</tr>
<tr>
<td></td>
<td>DH A111 Periodontics I 2</td>
</tr>
<tr>
<td></td>
<td>DH A112 Techniques I for Dental Hygienists 7</td>
</tr>
<tr>
<td></td>
<td>DH A114 Anatomy of the Orofacial Structures 2</td>
</tr>
<tr>
<td></td>
<td>*DN A203 Normal Nutrition (3) 3</td>
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<tr>
<td></td>
<td>or *CAA102 Nutrition (3)</td>
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</tbody>
</table>

   *Due to a heavy credit load, it is recommended that the nutrition course be taken prior to formal admission into the Dental Hygiene program.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>Spring Semester</td>
<td>GH 113 Issues for Dental Hygiene 1</td>
</tr>
<tr>
<td></td>
<td>DH A121 Periodontics II 2</td>
</tr>
<tr>
<td></td>
<td>DH A122 Techniques II for Dental Hygienists 4</td>
</tr>
<tr>
<td></td>
<td>DH A165 Pharmacology for Dental Hygienists 2</td>
</tr>
<tr>
<td></td>
<td>DH A192 Clinical Seminar I 1</td>
</tr>
<tr>
<td></td>
<td>DH A195 Clinical Practicum I 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>DH A211 Current Periodontal Therapies 2</td>
</tr>
<tr>
<td></td>
<td>DH A212 Techniques III for Dental Hygienists 3</td>
</tr>
<tr>
<td></td>
<td>DH A214 Pathology of Oral Tissues 2</td>
</tr>
<tr>
<td></td>
<td>DH A292A Clinical Seminar II 1</td>
</tr>
<tr>
<td></td>
<td>DH A295A Clinical Practicum II 5</td>
</tr>
<tr>
<td></td>
<td>DH A310 Oral Pain Control 3</td>
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</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring Semester</td>
<td>DH A224 Principles of Dental Health 3</td>
</tr>
<tr>
<td></td>
<td>DH A292B Clinical Seminar III 1</td>
</tr>
<tr>
<td></td>
<td>DH A295B Clinical Practicum III 6</td>
</tr>
</tbody>
</table>

2. A total of 73 credits is required for the degree.

FACULTY

Nancy Bish, Associate Professor, AFNKB@uaa.alaska.edu
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Deborah Stauffer, Professor, AFDWS@uaa.alaska.edu
Cindy Zimmerman, Assistant Professor, AFCJZ@uaa.alaska.edu
The electronic industry continues to be one of the fastest growing in the world. Technological changes, the demand for improved communications, and computer/microprocessor equipment provide many opportunities for well-trained and motivated technicians. Both men and women are welcomed by the industry and UAA’s program.

The Electronics Technology program offers a certificate for those who complete technical courses only. However, students are encouraged to complete the Associate of Applied Science degree for further career advancement.

The Anchorage Campus Electronics program is conventionally structured, and students attend class four hours per day, five days a week. Students may enter the Electronics Technology program in the fall or spring semester. Those who enter in the spring must attend classes during the summer session to complete the program in 4 consecutive semesters. Fall and spring semesters are 15 weeks, while the summer session is usually 10 weeks in duration.

The Matanuska-Susitna College Campus Electronics program is not structured in the conventional manner. Instead it is designed primarily as a self-paced, open-entry evening program for the student who requires more flexible scheduling. The program offers self-paced courses along with open laboratories for either full-time or part-time students. The program is adaptable to various work schedules.

The MSC Electronics Technology program offers a certificate of training following the second, third, or fourth semesters in addition to the Associate of Applied Science (AAS) degree.

The Electronics Technology program provides a thorough background in electronics preparing graduates for entry-level positions in most phases of the industry in Alaska.

CERTIFICATES, ELECTRONICS TECHNOLOGY

Anchorage Campus

1. Complete the following requirements (64 credits):
   - ET A103 Electronic Concepts and Services 4
   - ET A104 DC Circuits 4
   - ET A106 Electronics Laboratory I 4
   - ET A124 Electronic Calculations II 4
   - ET A125 AC Circuits 4
   - ET A126 Principles of Logic and Gating 4
   - ET A128 Solid State Electronics: Theory and Laboratory 4
   - ET A150 Basic Microcomputer Electronics 4
   - ET A230 Telecommunications 4
   - ET A231 Audio 4
   - ET A232 Applied ICS 4
   - ET A233 Microcomputer Architecture 4
   - ET A250 Transmitters and Receivers 4
   - ET A251 Video Systems Analysis 4
   - ET A252 Computer Systems II 4
   - ET A253 Computer Systems III 4

2. A total of 64 credits is required for the Anchorage Campus certificate.

Matanuska-Susitna College Campus

To receive a One-Year Certificate of Training, students must satisfactorily complete the following courses:

1. Complete the following requirements (29 credits):
   - ET A104 DC Circuits 4
   - ET A106 Electronics Laboratory I 4
   - ET A111 Electronics Laboratory II 4
   - ET A122 Introduction to Electronic Devices 3
   - ET A123 Electronic Circuit Fundamentals 3
   - ET A125 AC Circuits 4
   - ET A126 Principles of Logic and Gating 4
   - ET A127 Microprocessor Fundamentals 3

2. A total of 29 credits is required for the MSC certificate.

To receive a One and One-Half Year Intermediate Certificate of Training, students must satisfactorily complete the following courses in addition to those indicated for the One-Year Certificate:

1. Complete the following requirements (12 credits):
   - ET A205 Transmitter Circuitry 3
   - ET A209 Receiver Circuitry 3
   - ET A216 Personal Computer Servicing 3
   - ET A217 Personal Computer Troubleshooting 3

2. A total of 41 credits is required for the MSC certificate.

To receive a Two-Year Advanced Certificate of Training, students must satisfactorily complete the following courses in addition to those indicated for the One-Year and One and One-Half Year Certificate:

1. Complete the following requirements (12 credits):
   - ET A218 Personal Computer Networking 3
   - ET A220 Wideband Systems I 3
   - ET A225 Principles of Microwave Electronics 3
   - ET A226 Industrial Electronics 3

2. A total of 53 credits is required for the MSC certificate.

ASSOCIATE OF APPLIED SCIENCE, ELECTRONICS TECHNOLOGY

ADMISSION REQUIREMENTS

See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.

2. Complete the Associate of Applied Science Requirements (15 credits) located at the beginning of this chapter.
## Major Requirements
### Anchorage Campus
1. Complete the following requirements (64 credits):
   - ET A103 Electronic Concepts and Services 4
   - ET A104 DC Circuits 4
   - ET A106 Electronics Laboratory I 4
   - ET A124 Electronic Calculations II 4
   - ET A125 AC Circuits 4
   - ET A126 Principles of Logic and Gating 4
   - ET A128 Solid State Electronics: Theory and Laboratory 4
   - ET A150 Basic Microcomputer Electronics 4
   - ET A230 Telecommunications 4
   - ET A231 Audio 4
   - ET A232 Applied ICS 4
   - ET A233 Microcomputer Architecture 4
   - ET A250 Transmitters and Receivers 4
   - ET A251 Video Systems Analysis 4
   - ET A252 Computer Systems II 4
   - ET A253 Computer Systems III 4
2. A total of 79 credits is required for the Anchorage Campus degree.

### Matanuska-Susitna College Campus
1. Complete the following requirements (53 credits):
   - ET A104 DC Circuits 4
   - ET A106 Electronics Laboratory I 4
   - ET A111 Electronics Laboratory II 4
   - ET A122 Introduction to Electronic Devices 3
   - ET A123 Electronic Circuit Fundamentals 3
   - ET A125 AC Circuits 4
   - ET A126 Principles of Logic and Gating 4
   - ET A127 Microprocessor Fundamentals 3
   - ET A205 Transmitter Circuitry 3
   - ET A209 Receiver Circuitry 3
   - ET A216 Personal Computer Servicing 3
   - ET A217 Personal Computer Troubleshooting 3
   - ET A218 Personal Computer Networking 3
   - ET A220 Wideband Systems I 3
   - ET A225 Principles of Microwave Electronics 3
   - ET A226 Industrial Electronics 3
2. A total of 68 credits is required for the MSC degree.

## Fire Service Administration
### Admission Requirements
See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

### General University Requirements
1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

### Major Requirements
1. Complete the following required courses (21 credits):
   - FSAA101 Introduction to Fire Science 3
   - FSAA105 Fundamentals of Fire Prevention 3
   - FSAA107 Fire Tactics and Strategy 3
   - FSAA111 Fire Company Organization and Management 3
   - FSAA117 Rescue Practices 3
   - FSAA202 Fire Hydraulics 3
   - FSAA204 Hazardous Materials I 3
2. Complete 9 credits from the following courses or other FSA courses as approved by program coordinator:

- EMT A130 Emergency Medical Technician I (6)
- FSAA115 Fire Apparatus and Equipment (3)
- FSAA121 Introduction to Fire Chemistry (3)
- FSAA123 Fire Investigation I (3)
- FSAA151 Wildland Fire Control I (3)
- FSAA206 Building Construction for Fire Protection (3)
- FSAA210 Hazardous Materials II (3)
- FSAA212 Related Codes and Ordinances (3)
- FSAA214 Fire Protection Equipment and Systems (3)
- FSAA217 Advanced Rescue Practices (3)

3. Complete an additional 15 credits of electives.

4. A total of 60 credits is required for the degree.

**FACULTY**

*Tom Wells, Coordinator*

## INDUSTRIAL PROCESS INSTRUMENTATION

**34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.**

The Industrial Process Instrumentation program is offered only at Kenai Peninsula College.

Industrial Process Instrumentation is a specialized technical degree. Strong math and science skills are emphasized. Students must work closely with advisors to complete this program in two years. A fifth semester of course work may be necessary.

Students are prepared for employment as instrument technicians. Instrument technicians are responsible for the repair, maintenance, adjustment, and calibration of automatic controls used in refineries, chemical plants, pipelines, production facilities, and other industries where automatic control is used.

### ASSOCIATE OF APPLIED SCIENCE, INDUSTRIAL PROCESS INSTRUMENTATION

#### ADMISSION REQUIREMENTS

1. ASSET placement at the MATH A100 entry-level or above.
2. ASSET placement for reading at the ENGLA107 level or above.
3. Students placing below these math and reading levels on ASSET must see a faculty advisor in the Industrial Process Instrumentation program prior to registering for instrumentation courses.

#### GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.

1. Communication Requirements

   - ENGLA111 Methods of Written Communication 3
   - ENGLA212 Technical Writing 3
   - COMM A111 Fundamentals of Oral Communication 3

2. General Requirements

   - MATH A105 Intermediate Algebra 3
   - PHYS A115 Physical Science I for Technicians (4)
   - PHYS A116 Physical Science II for Technicians (4)
   - PHYS A123/LBasic Physics I (4)
   - CHEM A105/LGeneral Chemistry I (4)
MAJOR REQUIREMENTS

1. Complete the following required courses (48 credits):
   - ET A101 Basic Electronics: DC Physics (4)
   - ET A151 Basic Electricity (4)
   - ET A126 Principles of Logic and Gating (4)
   - ET A175 Technical Introduction to Microcomputers (3)
   - ET A240 Application of Integrated Circuits (3)
   - ET A241 Microcomputer Interfacing (3)
   - ET A245 Basic Electronics (4)
   - ET A246 Electronic Industrial Instrumentation (3)
   - PETR A106 Petroleum Science II (3)
   - PETR A140 Industrial Process Instrumentation I (3)
   - PETR A144 Industrial Process Instrumentation II (3)
   - PETR A150 Mechanical Drafting for the Petroleum Industry (3)
   - PETR A155 Blueprint Reading (3)
   - PETR A230 Practical Distillation (3)
   - PETR A231 Production Plant Operations (3)
   - PETR A240 Industrial Process Instrumentation III (3)
   - PETR A244 Industrial Process Instrumentation IV (3)
   - PETR A270 Industrial Mechanical Equipment (3)

2. A total of 68 credits is required for the degree.

MECHANICAL TECHNOLOGY

34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

The Mechanical Technology Program is offered only at Kenai Peninsula College.

The one-year certificate in Mechanical Technology provides the student with experience in the maintenance of most major types of rotating equipment and the operation of common machine tools. This program prepares students for employment as entry-level mechanics or millwrights in all types of industrial plants. This certificate may take more than two semesters to complete due to staggered course offerings.

CERTIFICATE, MECHANICAL TECHNOLOGY

1. Certificate Requirements
   - MATH A101 Technical Mathematics (3)
   - MECH A101 Introduction to Machine Shop (4)
   - PETR A155 Blueprint Reading (3)
   - PETR A270 Industrial Mechanical Equipment (3)
   - WELD A101 Gas and Arc Welding (4)

*The students entering may have to take a hands-on test and may be required to take PETR A170 if the score is below an acceptable level.

2. Choose a minimum of 14 credits from the following electives:
   - EDD A288 Computer Aided Drafting (4)
   - ET A151 Basic Electricity (4)
   - MECH A102 Intermediate Machine Shop (4)
   - MECH A115 Gasoline Engine Rebuilding (3)
   - MECH A201 Advanced Machine Shop (4)
   - WELD A108 Wire Welding (4)
   - WELD A109 TIG Welding (4)

3. A total of 31 credits is required for the certificate.
MEDICAL ASSISTING
Allied Health Sciences Building (AHS), Room 155, (907) 786-6928

The Medical Assisting program prepares students for employment in physicians' offices or medical clinics. The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), on recommendation of the Committee on Accreditation for Medical Assistant Education. Training includes clinical duties such as assisting with examinations, preparing patients for various procedures, sterilizing instruments, and caring for examining rooms. Instruction is given in secretarial and administrative responsibilities of medical offices, such as completing health insurance forms, scheduling appointments, handling correspondence, preparing medical and financial records, and other office management tasks.

Other employment opportunities for which the Medical Assisting program provides training include medical transcriptionist, medical receptionist, health insurance clerk, and medical secretary. Medical terminology courses are valuable for all health science students and may be taken by anyone entering a health occupation. Formal admission to the Medical Assisting program is not required for all courses. Call the Medical Assisting Office for information.

Medical assisting courses are offered in fall and spring semesters.

A 6-week office practice (externship) begins in May. Most courses are offered only once per year. Students who wish to obtain an Associate of Applied Science degree must complete additional courses. Part-time students are welcome.

Nontranscripted Departmental Certificate of Completion
A nontranscripted departmental certificate of completion for a one year course of study in medical assisting is available. Obtain brochure from the Medical Assisting Office.

ASSOCIATE OF APPLIED SCIENCE, MEDICAL ASSISTING

ADMISSION REQUIREMENTS
The following prerequisites must be met by all students applying for admission to the Medical Assisting program:
1. High school graduation or equivalent (GED).
2. Keyboarding speed of 45 words per minute. Students who can type but have not reached this speed may enter the program and add a keyboarding course to their schedule.
3. Average or better spelling and English abilities.
4. Good health. A recent physical examination is required before externship.
5. Adult and child/infant CPR certifications are required prior to the start of externship.

Students must complete the following admission procedure:
1. Obtain an application from the Medical Assisting Office.
2. Have high school and college transcripts sent to the Medical Assisting program.
3. Apply to Advising and Counseling for the ASSET test, Math placement, and DAT Spelling Test. Have results sent to the Medical Assisting program.
4. Make an appointment for an interview with Medical Assisting advisor.

GENERAL UNIVERSITY REQUIREMENTS
1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS
1. Complete the following required courses (50 credits):
   ACCT A120 Bookkeeping for Business I 3
   BIOLA100 Human Biology 3
   CIOS A115G Introduction to Microsoft Word in Windows (1) 1
   or
   CIOS A115H Introduction to WordPerfect in Windows (1)
   CIOS A160 Business English 3
   CIOS A170 Calculators 1
   CAA102 Nutrition 3
   MAA101 Medical Terminology I 3
   MAA104 Medical Terminology II 3
   MAA120 Medical Office Procedures I 4
   MAA125 Medical Office Procedures II 4
   MAA140 Medical Transcription I 3
   MAA141 Medical Transcription II 3
   MAA150 Clinical Procedures I 4
   MAA155 Clinical Procedures II 4
   MAA295 Medical Office Externship 5
   PSYA150 Human Development 3
2. Elective 1
3. A total of 60 credits is required for the degree

FACULTY
Pam Ventgen, Visiting Asst Professor, AFPKV@uaa.alaska.edu
Robin Wahto, Associate Professor, AFRJW@uaa.alaska.edu
MEDICAL LABORATORY TECHNOLOGY

Allied Health Sciences Building (AHS), Room 155, (907) 786-6928

The Medical Laboratory Technology (MLT) program prepares students for employment as Medical Laboratory Technicians. Students receive an Associate of Applied Science degree and are eligible to sit for national certification exams offered by the American Society of Clinical Pathologists and the National Certification Association for Medical Laboratory Personnel. The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). NAACLS is recognized by the United States Department of Education and the Council for Higher Education Accreditation.

Graduates are prepared with the technical skills and comprehensive working knowledge to perform all routine laboratory tests which aid in the diagnosis/treatment of disease and to judge and access performance of quality control procedures. Examples of tests performed are microscopic blood cell counts and identification of normal and abnormal cells, testing of blood for transfusions, culture of microorganisms, and tests such as glucose and cholesterol run on automated instrumentation. The MLT Program can be completed in 5 semesters. The final semester is a clinical practicum in an area hospital which emphasizes correlation of practice and theory.

Students may enter the program in the fall or spring semester. Part-time students are also accepted. Non-program students are encouraged to enroll (on space-available basis) in MLT courses if prerequisites are met or previous clinical experience has occurred. Students are accepted on a first-come, first-served basis after completion of file with the MLT program showing proof of admission requirements.

ASSOCIATE OF APPLIED SCIENCE, MEDICAL LABORATORY TECHNOLOGY

ADMISSION REQUIREMENTS

Students must complete the following admission requirements:
1. Submit an admission application to the MLT program.
2. Graduate from high school or equivalent (GED).
3. Earn a grade of “C” or better in CHEM A103/L, CHEM 104, BIOLA111, BIOLA112 and MEDT A132. (Six credits from BIOL or CHEM may be applied to the general requirements of the AAS degree).
4. Personal interview with MLT advisor.
5. Current immunization status for diphtheria-tetanus, rubella, hepatitis, and current screening test for tuberculosis. (Required immediately following acceptance into program).
6. Prior to enrolling in MEDT A295, students must demonstrate computer competency using one of the following methods:
   • A 3 credit or equivalent course in introduction to data processing or microcomputers.
   • Work related experience in computer competency approved by the Medical Laboratory Technology faculty.
   • Self initiated computer competency as approved by the Medical Laboratory Technology faculty.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS

1. Complete the following required courses (58 credits):
   - BIOLA111 Human Anatomy and Physiology I 4
   - BIOLA112 Human Anatomy and Physiology II 4
   - CHEM A103 Survey of Chemistry 3
   - CHEM A103L Survey of Chemistry Laboratory 1
   - CHEM A104 Introduction to Organic and Biochemistry 3
   - MEDT A132 Introduction to Laboratory Medicine 3
   - MEDT A202 Clinical Chemistry 6
   - MEDT A203 Clinical Microbiology 6
   - MEDT A204 Hematology and Coagulation 6
   - MEDT A206 Immunology and Blood Banking 6
   - MEDT A208 Urine and Body Fluid Analysis 3
   - MEDT A250 Capstone Seminar 1
   - MEDT A295 Clinical Practicum 12

   Note: CHEM and BIOL courses must have been completed within the last five years. MEDT transfer courses must be approved by MEDT faculty.

2. A total of 67 credits is required for the degree.

FACULTY

Heidi Mannion, Term Assistant Professor, AFHAM@uaa.alaska.edu
The Occupational Safety and Health program prepares students for employment as a safety professional in a variety of industries. Some of these industries include: construction, petroleum, mining and tourism. The safety profession is a growing field with a wide range of opportunities for employment. This program provides a thorough background in Occupational Safety and Health preparing graduates for entry-level positions in many of the industries in Alaska.

The Occupational Safety and Health program is a 61 credit Associate of Applied Science degree. Students experience a wide variety of course work in the safety field including hazardous materials training, ergonomics, industrial hygiene, injury prevention, epidemiology, OSHA standards, and safety program development.

**ASSOCIATE OF APPLIED SCIENCE, OCCUPATIONAL SAFETY AND HEALTH**

**ADMISSION REQUIREMENTS**
1. Contact the Occupational Safety and Health department at (907)786-6445 for an appointment with a faculty advisor.
2. Request an admission and advising packet.
3. Demonstrate computer competency evidence by any of the following:
   a. A 3 credit or equivalent course using one or more of the following applications: Word processing, spreadsheets, databases, or an introductory course in data processing or microcomputers.
   b. Work-related experience verifying computer competency as approved by the faculty advisor.
   c. Self-initiated computer competency as approved by the faculty advisor.

**GENERAL UNIVERSITY REQUIREMENTS**
1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter. Some of the major requirements also will fulfill associate of applied science degree general requirements.

**MAJOR REQUIREMENTS**
1. Complete the following required courses (55 credits):
   - BIOLA100 Human Biology 3
   - CHEM A103 Survey of Chemistry 3
   - CHEM A103L Survey of Chemistry Laboratory 1
   - ENGLA212 Technical Writing 3
   - MATH A105 Intermediate Algebra 3
   - OSH A101 Introduction to Occupational Safety and Health 3
   - OSH A108 Injury Prevention and Risk Management 4
   - OSH A110 Program Assessment, Development, and Implementation 4
   - OSH A112 Introduction to Injury Epidemiology 3
   - OSH A120 Safety Program Management and Recordkeeping 2
   - OSH A180 Introduction to Industrial Hygiene 4
   - OSH A201 Workplace Injury and Incident Evaluation 4
   - OSH A210 Training Needs and Methods 3
   - OSH A230 Principles of Ergonomics 3
   - OSH A240 Workplace Monitoring: Instrumentation and Calibration 3
   - OSH A250 Hazardous Materials Operation 3
   - TECH A495* Technical Internship 3
   - VE A301 Principles of Technology 3

* An advisor approved elective course may be substituted for TECH A495, Technical Internship.
2. A total of 61 credits is required for the degree.
PARAMEDICAL TECHNOLOGY

Paramedics provideprehospital emergency care to acutely ill or injured patients under medical authority of licensed physicians. Individuals interested in pursuing a career as a paramedic should possess significant strength to lift and carry victims, good use of hands and fingers, good coordination, good judgment and emotional stability, and ability to work confidently under pressure. Students successfully completing the PMED courses meet the U.S. Department of Transportation National Standards for a Mobile Intensive Care Paramedic and are eligible to take the National Registry Examination required for licensure.

Two primary requirements of the program are the clinical rotations and the internship. Clinical rotations provide instruction and supervised practice of emergency medical skills in various units of hospitals within the Anchorage area. The field internship provides experience on an advanced life support mobile intensive care vehicle. Student interns are the third member of the rescue team and work under the direct supervision of a paramedic preceptor. Internship sites are arranged in various U.S. locations. Efforts are made to place students in geographic locations of their choice, however intern positions may not be available at all approved sites. Length of internship varies depending on the rescue call-volume in a location.

ASSOCIATE OF APPLIED SCIENCE,
PARAMEDICAL TECHNOLOGY

ADMISSION REQUIREMENTS

Prospective students must contact the UAA Emergency Services Department for specific admission information. Completion of the UAA admission requirements does not guarantee selection into the Paramedical Technology Program. A limited number of positions is available for each entering class. Information provided here is for general guidance only.

1. High school diploma or GED.
4. Successful completion of a written examination.
5. Interview with selection committee members of the Paramedical Technology Program.

Note: To meet AAS degree requirements, nontraditional certified experience credit may be awarded to students with current paramedic licensure after they successfully complete PMED A310. Contact the department for information.

ACADEMIC PROGRESS

Students must earn a grade of “B” or higher in each PMED course.

GENERAL UNIVERSITY REQUIREMENTS

1. Complete the associate degree requirements located at the beginning of this chapter.
2. Complete the Associate of Applied Science degree requirements (15 credits) located at the beginning of this chapter. ENGLA212 is recommended. BIOLA111 and BIOLA112 fulfill the six-credit general requirement for the AAS degree.

MAJOR REQUIREMENTS

1. Complete the following required courses (56 credits):
   - BIOLA111 Human Anatomy and Physiology I 4
   - BIOLA112 Human Anatomy and Physiology II 4
   - PMED A101 Paramedicine I 8
   - PMED A105 Paramedicine II 8
   - PMED A120 Paramedicine III 9
   - PMED A195A Clinical Rotation I 4
   - PMED A195B Clinical Rotation II 4
   - PMED A195C Clinical Rotation III 3
   - PMED A295A Paramedical Internship 12

2. A total of 65 credits is required for the degree.
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PETROLEUM TECHNOLOGY

34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.
The Petroleum Technology program is offered only through Kenai Peninsula College.

Kenai Peninsula College offers a one-year certificate program and a two-year Associate of Applied Science (AAS) degree in Petroleum Technology. The certificate provides specific training in petro/chemical plant operations or instrumentation. The instrumentation option requires students to take Industrial Process Instrumentation III during a third semester. The degree program allows students to gain an understanding of refinery, chemical plant, oil production, and pipeline operations. Students are prepared for employment as chemical plant operators, pump station operators, production operators, water flood operators, service company technicians, or lab technicians.

CERTIFICATE, PETROLEUM TECHNOLOGY

1. Complete the following requirements (30 credits):
   - ENGLA111 Methods of Written Communication 3
   - MATH A101 Technical Mathematics 3
   - PETR A105 Petroleum Science I 3
   - PETR A106 Petroleum Science II (3) 3
   - or
   - PETR A155 Blueprint Reading (3)
   - PETR A120 Surface Oil Field Equipment I 3
   - PETR A140 Industrial Process Instrumentation I 3
   - PETR A144 Industrial Process Instrumentation II 3
   - PETR A230 Practical Distillation 3
   - PETR A231 Production Plant Operations 3
   - PETR A270 Industrial Mechanical Equipment 3
   
2. A total of 30 credits is required for the certificate.

INSTRUMENTATION OPTION

1. Complete the following requirements (32 credits):
   - ENGLA111 Methods of Written Communication 3
   - ET A151 Basic Electricity 4
   - ET A245 Basic Electronics 4
   - ET A246 Electronic Industrial Instrumentation (3) 3
   - or
   - PETR A244 Industrial Process Instrumentation IV (3)
   - MATH A101 Technical Mathematics 3
   - PETR A140 Industrial Process Instrumentation I 3
   - PETR A144 Industrial Process Instrumentation II 3
   - PETR A155 Blueprint Reading 3
   - PETR A230 Practical Distillation 3
   - PETR A240 Industrial Process Instrumentation III 3
   
2. A total of 32 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE,
PETROLEUM TECHNOLOGY

ADMISSION REQUIREMENTS

1. ASSET placement at the MATH 100 entry-level or above.
2. ASSET placement for reading at the ENGLA110 level or above.
3. Students placing below these math and reading levels on ASSET must see a faculty advisor in Petroleum Technology prior to registering for petroleum technology courses.

GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.

COMMUNICATION AND GENERAL REQUIREMENTS

1. Communication Requirements (9 credits):
   - ENGLA111 Methods of Written Communication 3
   - ENGLA212 Technical Writing 3
   - COMM A111 Fundamentals of Oral Communication 3

2. General Requirements (14 credits):
   - MATH A101 Technical Mathematics (3) 3
   - or
   - MATH A105 Intermediate Algebra (3)
   - PHYS A115 Physical Science I for Technicians (4)
   - and
   - PHYS A116 Physical Science II for Technicians (4)
   - or
   - PHYS A115 Physical Science I for Technicians (4)
   - and
   - CHEM A105/L General Chemistry I (4)
   - or
   - PHYS A123/L Basic Physics I (4)
   - and
   - CHEM A105/L General Chemistry I (4)
   - *CIOS A105 Introduction to PC Computers 3
   - and Applications (3) 3
   - or
   - *CIOS A110 Computer Concepts in Business (3)

   *If student has demonstrated computer background, please see advisor about recommended substitute course.

MAJOR REQUIREMENTS

1. Complete the following required courses (21 credits):
   - PETR A105 Petroleum Science I 3
   - PETR A106 Petroleum Science II 3
   - PETR A120 Surface Oil Field Equipment I 3
   - PETR A140 Industrial Process Instrumentation I 3
   - PETR A144 Industrial Process Instrumentation II 3
   - PETR A230 Practical Distillation (3) 3
   - or
   - PETR A231 Production Plant Operations (3)
   - PETR A270 Industrial Mechanical Equipment 3
   
2. Choose 3 courses from the following (9-11 credits):
   - ET A101 Basic Electronics: DC Physics (4)
   - or
   - ET A151 Basic Electricity (4)
   - ET A245 Basic Electronics (4)
   - PETR A121 Surface Oil Field Equipment II (3)
   - PETR A150 Mechanical Drafting for the Petroleum Industry (3)
   - or
   - PETR A155 Blueprint Reading (3)
   - PETR A230 Practical Distillation (3)
   - or
   - PETR A231 Production Plant Operations (3)
   - PETR A240 Industrial Process Instrumentation III (3)
   - PETR A244 Industrial Process Instrumentation IV (3)
   
3. With advisor approval, complete an additional 5-7 elective credits.

4. A total of 60 credits is required for the degree.

*Any English courses used to satisfy the Humanities general requirement must be different from the written communications requirement and have a course number higher than ENGL A111.
The Refrigeration and Heating Technology program is offered only through Matanuska-Susitna College.

A two-year certificate program and an associate of applied science degree in Refrigeration and Heating are available. Students satisfactorily completing this program will possess a background in heating, air conditioning refrigeration, applied physics, mathematics, mechanical drawing, electricity, and the technical skills needed to diagnose and repair the modern commercial and domestic heating, refrigeration, air conditioning, and ventilation systems.

All students intending to enroll in the Refrigeration and Heating program must successfully pass a standardized placement test in reading, writing, and mathematics. Successful completion is considered to be 50 percentile or above on each of the three tests.

Emphasis of the program is to prepare the student with job entry-level skills. Additional training must take place on the job. Students must earn a cumulative GPA of 2.00 (C) or higher is required Refrigeration and Heating courses.

ADMISSION REQUIREMENTS
See Certificate and Associate Degree Programs Admission Requirements at the beginning of this chapter.

CERTIFICATE, REFRIGERATION AND HEATING TECHNOLOGY

1. Complete the following requirements:
   First Year (26 credits):
   - RH A101 Refrigeration and Air Conditioning I 4
   - RH A103 Technical Math for Refrigeration and Heating I 3
   - RH A105 Electrical Circuits for Refrigeration and Heating I 3
   - RH A107 Physics for Refrigeration and Heating I 3
   - RH A122 Refrigeration and Air Conditioning II 4
   - RH A124 Domestic Refrigeration and Heating I 3
   - RH A126 Electrical Circuits for Refrigeration and Heating II 3
   - RH A128 Mechanical and Computer Drafting for Refrigeration and Heating I 3
   Second Year (24 credits)
   - RH A201 Commercial and Ammonia Refrigeration 4
   - RH A202 Physics for Refrigeration and Heating II 3
   - RH A203 Control Systems for Refrigeration and Heating II 3
   - RH A207 Drafting for Refrigeration and Heating II 3
   - RH A225 Heating Plants I - Residential 4
   - RH A226 Heating Plants II - Commercial 4
   - RH A229 Solid State Electronics for Refrigeration and Heating 3

2. A total of 50 credits is required for the certificate.

ASSOCIATE OF APPLIED SCIENCE, REFRIGERATION AND HEATING TECHNOLOGY

GENERAL UNIVERSITY REQUIREMENTS
1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter.

MAJOR REQUIREMENTS
1. Complete the following required courses (50 credits):
   - RH A101 Refrigeration and Air Conditioning I 4
   - RH A103 Technical Math for Refrigeration and Heating I 3
   - RH A105 Electrical Circuits for Refrigeration and Heating I 3
   - RH A107 Physics for Refrigeration and Heating I 3
   - RH A122 Refrigeration and Air Conditioning II 4
   - RH A124 Domestic Refrigeration and Heating I 3
   - RH A126 Electrical Circuits for Refrigeration and Heating II 3
   - RH A128 Mechanical and Computer Drafting for Refrigeration and Heating I 3
   - RH A201 Commercial and Ammonia Refrigeration 4
   - RH A202 Physics for Refrigeration and Heating II 3
   - RH A203 Control Systems for Refrigeration and Heating II 3
   - RH A207 Drafting for Refrigeration and Heating II 3
   - RH A225 Heating Plants I - Residential 4
   - RH A226 Heating Plants II - Commercial 4
   - RH A229 Solid State Electronics for Refrigeration and Heating 3

2. A total of 65 credits is required for the degree.

FACULTY

Jack Cypher, Instructor, PFJLC@uaa.alaska.edu
Dan Mielke, Instructor, PFDMM@uaa.alaska.edu
TECHNOLOGY

Beatrice McDonald Building (BMB), Room 106, (907) 786-6445

The Bachelor of Science degree in Technology offers qualified applicants the opportunity to expand upon their technical education. With proper academic advising, students may complete the requirements for an Associate of Applied Science degree while meeting the requirements for the baccalaureate degree. Depending on the applied science field, the baccalaureate electives, or the need for prerequisite work, the Bachelor of Science degree in Technology may take longer than two years beyond the Associate degree to complete. The Technology degree allows students to choose one of four areas of study: 1) Teacher Education qualifies students for an Alaska Type A teaching certificate, 2) Business enhances managerial/entrepreneurial skills, 3) Science and Technology advances technological skills, and 4) Airway Science is preparatory for careers in the aviation industry. Government agencies, school districts, corporations, and business and industry provide a ready market for graduates of this program.

ASSOCIATE OF APPLIED SCIENCE, TECHNOLOGY

The Associate of Applied Science in Technology program is offered only through Kodiak College.

The Associate of Applied Science in Technology Degree offers a choice of three areas of emphasis:
- Seafood Technology
- Space Maintenance
- Technology Education

This may include electricity, computer technology, refrigeration, welding, operation safety etc.

Applicants who qualify for the two year program at Kodiak College may wish to seek advanced degrees in Technology at UAA. Students seeking a technical career in Seafood Processing, Space Launch Complex Operations or one of the core technologies, will be well prepared as they complete the technology program. A comprehensive technology curriculum with a strong applied math and science component is offered to ensure student readiness for rewarding careers. Technical skills will be developed in an assortment of technologies with include refrigeration and air conditioning, manufacturing, welding, auto-CADD, electricity, and instrumentation.

Students successfully completing the AAS degree should expect one of the following outcomes;
1. Qualified to assume one of the technical careers in the seafood processing industry involving quality control, refrigeration, or systems troubleshooting.
2. Demonstrated technical skills to join an aerospace team to complete receiving, staging and other prelaunch operations.
3. Developed technical skills to quality for one of the special technology careers in computers, manufacturing, and construction.

ADMISSION REQUIREMENTS
See Open Enrollment requirements in Chapter 2 of this catalog.

A. GENERAL UNIVERSITY REQUIREMENTS
1. Complete the General University Requirements for Associate Degrees located at the beginning of this chapter.
2. Complete the Associate of Applied Science requirements (15 credits) located at the beginning of this chapter. Students are encouraged to meet with their academic advisor to coordinate program completion. ENGLA212 is recommended.

B. MAJOR REQUIREMENTS
1. Complete the following required courses (38 credits):
   General Requirements
   - Math A107 College Algebra 4
   Technology Core Requirements
   - OSH A250 Hazardous Material Operation 3
   - OSH A101 Introduction to Occupational Safety and Health 3
   - ET A151 Basic Electricity 4
   - PETR A140 Industrial Process Instrumentation I 3
   - CIOS A105 Introduction to PC Computers and Applications 3
   - AET A100 Fundamentals of Drafting 3
   - AET A281 Basic 2-D CADD 4
   - WELD A115 Basic Shielded Metal Arc Welding 2
   - RH A101 Refrigeration and Air Conditioning I 4
   - TECH A101 Introduction to Technological Principles 3
   - TECH A203 Introduction to Manufacturing Technologies 2

2. Complete the identified courses in one of the Technology Emphasis areas (12 credits):
   A. Space Maintenance
   - TECH A210 Introduction to Space Systems Technology 2
   - TECH A211 Space Vehicle Boosters, Satellites and Launch Facilities 3
   - TECH A212 Propulsion Systems 2
   - TECH A213 Quality Assurance and Launch Facility Management 2
   - TECH A295 Technical Internship 3
   - TECH A295 Technical Internship 3

   B. Seafood Technology
   - TECH A262 Seafood Harvesting 3
   - TECH A263 Seafood Processing 3
   - TECH A264 Seafood Quality and Safety 3
   - TECH A295 Technical Internship 3

   C. Technology Specialty
   Advanced Study in any core area with instructor approval for program course selections. Typical choices may include advanced studies in safety, electricity, drafting and/or fabrication
   - TECH A295 Technical Internship 6-9

3. A total of 65 credits is required for the degree.
BACHELOR OF SCIENCE, TECHNOLOGY

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements at the beginning of this chapter.

Students must complete an Associate of Applied Science degree from an accredited institution recognized by UAA or have earned equivalent credits in a technical specialty to achieve junior status in the baccalaureate program. Due to professional accreditation standards or the availability of UAAbaccalaureate degrees, the following degrees are not accepted toward meeting the above requirement: Associate of Arts, and AAS in Nursing, Medical Laboratory Technology, and Surveying and Mapping/Geomatics.

This degree requires computer competency which may be demonstrated in one of the following ways:

1. A 3 credit or equivalent course using one or more of the following applications: word processing, spreadsheets, databases, and communications, or an introductory course in data processing or microcomputers.
2. Work-related experiences verifying computer competency as approved by the faculty advisor.
3. Demonstrated computer competency as approved by the faculty advisor.

GRADUATION REQUIREMENTS

Students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

C. MAJOR REQUIREMENTS

1. Students must complete an Associate of Applied Science degree from an accredited institution recognized by UAA or have earned equivalent credits in a technical specialty (45 credit minimum).
2. Complete the following BST core requirements (19 credits):
   - ENGLA312 Advanced Technical Writing 3
   - MATH A108 Trigonometry 3
   - MATH A200 Calculus I 4
   - Natural Sciences or Quantitative Skills* 9

   *Choose 9 credits of Natural Sciences or Quantitative Skills courses (in addition to the 10 credit Natural Sciences and Quantitative Skills General Education Requirements) for which prerequisites have been met and faculty advisor has approved. Students choosing the Teacher Education Option are strongly encouraged to select courses from one discipline.

3. Complete one of the following four BST options:

TEACHER EDUCATION OPTION

Note: The Technology Program is undergoing curriculum changes. Contact department.

Students who select the Teacher Education Option must meet the following requirements in order to be admitted to student teaching and practicum:

A. Earn at least a 3.00 GPA in education and vocational education courses.
B. Earn at least a 2.50 overall GPA.
C. Be recommended by the Vocational Teacher Education faculty.
D. Submit verification of physical exam, including Tine test.

1. Complete the following required courses (47 credits):
   - ED A201 Introduction to Education 2
   - ED A321 Instruction and Assessment 3
   - ED A410 Language and Cognition 4
   - EDPE A338 Human Motor Development and Learning (3) 3
   - EDSE A312 Human Development and Learning (3)
   - EDSE A336 Classroom Management and Collaboration 3
   - TECH A320 Construction Systems 2
   - TECH A325 Transportation Systems 2
   - TECH A330 Manufacturing Systems 2
   - TECH A335 Communications Systems 2
   - TECH A402 Operational Safety 3
   - VE A395 Practicum in Vocational Education 3
   - VE A411 Philosophical Foundations of Vocational Education 3
   - VE A443 Methods of Instruction in Vocational Education 3
   - VE A452 Student Teaching: Vocational Education 12

2. Complete 6 credits consisting of an Alaska History course (3 cr.) and a Multicultural Education course (3 cr.) approved by the Alaska Department of Education.

3. A total of 151 credits is required for the Teacher Education Option, of which 42 credits must be upper-division.

BUSINESS OPTION

Note: Total credits needed for graduation may increase unless Business Option students take at least 24 credits of upper-division work in the fulfillment of General Education Requirements and Natural Sciences/Quantitative Skills Requirements.

1. Complete the following required courses:
   - ACCT A201 Principles of Financial Accounting 3
   - ACCT A202 Principles of Managerial Accounting 3
   - ECON A201 Principles of Macroeconomics 3
   - ECON A202 Principles of Microeconomics 3
   - Upper-division BAcourses for which prerequisites are met 9
   - TECH A433 Project Design, Implementation, and Control (3) 6
   - TECH443 Total Quality Leadership (3)

2. A total of 125 credits is required for the Business Option, of which 42 credits must be upper-division.
SCIENCE AND TECHNOLOGY OPTION

Note: Total credits needed for graduation may increase unless Science and Technology Option students take at least 15 credits of upper-division work in the fulfillment of General Education Requirements and Natural Sciences/Quantitative Skills Requirements.

1. Complete the following required courses:
   - TECH A402 Operational Safety 3
   - TECH 422 Senior Project 3
   - TECH 433 Project Design, Implementation and Control 3
   - TECH 443 Total Quality Leadership 3
   - VE A301 Principles of Technology 3

2. Complete a minimum of 9 credits from the following with faculty advisor approval:
   - AET A381 Geographic Information Systems: Technology and Applications (4)
   - ANTH A455 Medical Anthropology (3)
   - AT A332 Transport Aircraft Systems (3)
   - AT A361 Federal Aviation Administration Inspection Authorization (3)
   - AT A362 Aerodynamics and Flight Performance (4)
   - AT A364 Avionics Systems (3)
   - AT A420 Air Transportation System (3)
   - AT A431 Aircraft Accident Investigation (3)
   - DH A320 Dental Health Services (2)
   - DH A395 Clinical Practicum IV for Dental Hygienists (1-3)
   - DH A420 Community Dental Health (3)
   - DH A495 Alternative Practicum for Dental Hygienists (2)
   - ET A340 Microcontroller Electronics (4)
   - ET A350 Federal Licensing Preparation (4)
   - HS/SOC A370 Medical Sociology (3)
   - HS A379 Health Data Analysis (4)
   - HS/NS A433 Health Education: Theory and Practice (3)
   - TECH A310 NDE for Managers and Technicians (3)
   - TECH A415 Accident Investigation (4)
   - TECH A416 Safety Appraisal Methodology (3)
   - VE/TECH A412 Advanced Technical Experiences (1-9)*
   - WELD A310 Applied Evaluation of Components and Materials (3)
   - WELD A410 Advanced Nondestructive Testing (3)

*VE/TECH A412 is limited to 6 credits. The maximum number of total credits for VE/TECH A412 and VE/TECH A495 is 9.

3. A total of 122 credits is required for the Science and Technology Option, of which 42 credits must be upper-division.

AIRCRAFT OPTION

Airway Science students may complete MATH A107 College Algebra (4) and MATH A272 Calculus for Managerial Sciences (3) to fulfill the BST core requirements in math. Please note that MATH A108 Trigonometry is required for some of the AT selectives listed below in section 2.

Careful academic advising will ensure fulfillment of the degree requirements. Consult the specific Associate of Applied Science program faculty advisor for assistance in designing your lower division program of study.

Note: Total credits needed for graduation may increase unless Airway Science Option students take at least 6-12 credits of upper-division work in the fulfillment of General Education Requirements and Natural Sciences/Quantitative Skills Requirements.

1. Complete the following required courses:
   - AS A253 Applied Statistics for the Sciences (4) 3-4
   - AS A307 Probability and Statistics (3)
   - AT A331 Human Factors in Aviation 3
   - AT A495 Aviation Internship II (1-3) 3
   - BAA300 Organizational Theory and Behavior 3
   - BAA361 Human Resource Management 3
   - BAA461 Negotiations and Conflict Management 3
   - PHYS A123/L Basic Physics I (4) 3-4
   - VE A301 Principles of Technology (3)
   - TECH A443 Total Quality Leadership 3

2. Select a minimum of 9 credits from the following courses with faculty advisor approval:
   - AT A332 Transport Aircraft Systems (3)
   - AT A420 Air Transportation Systems (3)
   - AT A431 Aircraft Accident Investigation (3)
   - AT A490 Advanced Topics in Aviation (1-6)

3. A total of 120-126 credits is required for the Airway Science Option, of which 42 credits must be upper-division.

FACULTY

Erie Johnson, Associate Professor, AFEVJ@uaa.alaska.edu
Curtis Sather, Professor, AFCES@uaa.alaska.edu
The Welding Technology program prepares students for employment in welding and nondestructive inspection as entry-level technicians.

Training includes basic theory, research procedure development, welding applications, weld testing, and a variety of welding skills. Students are required to certify in three welding processes and one nondestructive testing process. Although there are no special admission requirements for the Associate of Applied Science degree program, students are encouraged to contact the Welding Technology department before enrolling. Students may enter the program in either fall or spring semester (fall preferred). In some classes, enrollment is limited due to equipment, laboratory, and safety requirements.

Courses are also open to qualified persons who wish to upgrade present job skills. Special material fees are charged for laboratory courses and students are required to purchase personal safety gear and tools. Nontranscripted departmental certificates of completion are offered to students in the Anchorage campus welding program.

**Certificate, Welding Technology**

This certificate is offered only at Kenai Peninsula College.

The one-year certificate in welding technology provides a student with specific training for structural and pipe welding certification. Students gain a well-rounded education in the use of the latest welding technology, blueprint reading, layout, and fabrication. Graduates of this program will be prepared for employment as structural or pipe welders, and will have a solid welding background for many mechanical trades.

*Note: Experienced welders have the option of bypassing the first semester courses by completing written and practical examinations on first semester work. This will allow experienced welders to enter the program at an appropriate level.*

1. Complete the following requirements (24 credits):
   - MATH A101 Technical Mathematics 3
   - WELD A102 Gas Welding 2
   - WELD A103 Arc Welding 4
   - WELD A104 Arc Welding: Low-Hydrogen Electrodes 4
   - WELD A105 Pipe Welding 4
   - WELD A106 Pipe Certification 4
   - PETR A155 Blueprint Reading 3

2. Complete one of the following (4 credits):
   - WELD A108 Wire Welding (4)
   - WELD A109 TIG Welding (4)

   *All students must pass structural and pipe certification tests before receiving a certificate in Welding Technology.*

3. A total of 28 credits is required for the certificate.
SCHOOL OF ENGINEERING

The School of Engineering offers areas of study at the undergraduate level:

- A 4-year program leading to a Bachelor of Science in Civil Engineering;
- The first two years of a program in Electrical Engineering;
- The first two years of a program in Mechanical Engineering;
- A 2-year program leading to an Associate of Applied Science in Geomatics; and
- A 4-year program leading to a Bachelor of Science in Geomatics

CIVIL ENGINEERING

Engineering embraces the wide range of cultural and technical subjects related to the planning, design and manufacture, or construction of objects necessary for civilization. An engineer is an innovator, a builder and a problem solver. Engineers turn scientific knowledge into useful goods and services and are responsible to society for their engineering design decisions. They are interested in creating and working with people often as team members in positions of leadership. Engineers are concerned about people and ways to provide society with improved living standards.

GEOMATICS

Geomatics embraces the traditional disciplines of land surveying, mapping, geodesy, photogrammetry, and hydrography, together with the newer disciplines of remote sensing, digital photogrammetry, and spatial or geographic information systems (GIS). Geomaticians help design, map and manage the natural and the man-made resources of the earth. Their skills and efforts are important in project development and environmental protection. They gather, analyze, and manipulate data, map results and help design new developments. The disciplines used in Geomatics are based on advancing technologies and use an integrated approach to the acquisition, analysis, storage, distribution, management, and application of spatially-referenced data.

CIVIL ENGINEERING

www.engr.uaa.alaska.edu
Engineering Building (ENGR), Room 201, (907) 786-1900

Civil Engineering deals with environmental control; bridges, buildings and harbor facilities; water resource development and waste disposal; dams, water power, irrigation works and drainage; air, water, highway and railway transportation; construction and management; topographic surveying and geodesy; city management and developmental planning.

In addition to providing the training necessary for entrance into the professional practice of engineering, the undergraduate curriculum in Civil Engineering develops an excellent background for those desiring analytical and quantitative skills useful in their disciplines. The engineering programs at UAA emphasize northern region design considerations and principles. Engineering graduates from the program receive training appropriate for the Alaskan engineering job market.

Engineering students are introduced to the basic principles of mathematics, chemistry and physics 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. Throughout the four-year engineering program students take courses in communications, skills in written, oral and graphic communications and to become aware of social responsibilities and roles in modern society.

BACHELOR OF SCIENCE, CIVIL ENGINEERING

The Department of Civil Engineering offers an undergraduate curriculum leading to the four-year Bachelor of Science Degree in Civil Engineering. The first two years of the program generally apply to most other fields of engineering. Students desiring to enter other fields can begin an engineering program at UAA, but should plan to transfer to another university at the end of their second year.

ACCREDITATION

The Bachelor of Science degree program in Civil Engineering at UAA is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

ADMISSION REQUIREMENTS

Entering first year students should have completed the Baccalaureate Degree Program Admission Requirements at the beginning of this chapter. In addition, students entering the undergraduate engineering program must have completed the following high school courses with grades of “C” or better.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3 years</td>
</tr>
<tr>
<td>Algebra</td>
<td>2 years</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>1/2 year</td>
</tr>
<tr>
<td>Physics</td>
<td>1 year</td>
</tr>
<tr>
<td>Chemistry</td>
<td>1 year</td>
</tr>
</tbody>
</table>
It is recommended that the students graduating from high school without satisfactorily completing the courses noted above enroll in the necessary courses to make up deficiencies during the summer session.

Only those students admitted to the undergraduate Civil Engineering program may take courses in Engineering Science and/or Civil Engineering at the 200-level or above. Students not admitted to the program may petition the Department of Civil Engineering to be admitted to individual courses.

ADVISING

All undergraduate students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

ACADEMIC PROGRESS

All prerequisites for Engineering courses must be completed with a grade of “C” or higher.

Baccalaureate degree candidates in the School of Engineering must have a minimum GPA of 2.00 for all required 300- and 400-level Engineering courses taken at UAA.

A student who is unable to earn a satisfactory grade in an engineering course during their initial enrollment may attempt to earn a satisfactory grade one additional time, on a space-available basis.

A student who has a semester GPA in engineering courses below 2.0 will be placed on academic warning by the School of Engineering. A student on academic warning who receives a semester GPA in Engineering courses of at least 2.0, will be removed from academic warning status by the School. Otherwise, they will be disqualified from further study in the School of Engineering and will not be permitted to attend Engineering courses.

GRADUATION REQUIREMENTS

In order to receive the Bachelor of Science degree in Civil Engineering, students must complete the following graduation requirements:

A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees (GER) listed at the beginning of this chapter. Of the 15 credits required for Social Sciences, Humanities and Fine Arts, at least 6 credits must be completed at an advanced level (200) or above; however, this 6 credit advanced level course requirement could also be met by taking sequence courses at the 100-level or above. For example, HIST A101 may be followed by HIST A102, in which case HIST A102 would count as 3 credits of the 6 credit advanced level course requirement.

C. MAJOR REQUIREMENTS

1. Complete these required courses (120 credits):
   - CE A334 Properties of Materials 2
   - CE A344 Water Resources Engineering 3
   - CE A402 Transportation Engineering 3
   - CE A422 Foundation Engineering 3
   - CE A431 Structural Analysis 4
   - CE A432 Steel Design 3
   - CE A433 Reinforced Concrete Design 3
   - CE A435 Soil Mechanics 3
   - CE A438 Design of Engineering Systems 3
   - CE A441 Sanitary Engineering 3
   - CHEM A105 General Chemistry I 3
   - CHEM A105L General Chemistry I Lab 1
   - CHEM A106 General Chemistry II 3
   - CHEM A106L General Chemistry II Lab 1
   - ENGLA111 Methods of Written Communication 3
   - ENGLA211* Academic Writing About Literature 3
   - ES A103 Engineering Graphics 3
   - ES A111 Engineering Science 3
   - ES A201 Computer Techniques 3
   - ES A209 Engineering Statics 3
   - ES A210 Engineering Dynamics 3
   - ES A301 Engineering Analysis 3
   - ES A309 Elements of Electrical Engineering 3
   - ES A331 Mechanics of Materials 4
   - ES A341 Fluid Mechanics 4
   - ES A346 Basic Thermodynamics 3
   - ESM A450 Economic Analysis and Operations 3
   - GEO A166 Elements of Geomatic Measurements 3
   - MATH A200 Calculus I 4
   - MATH A201 Calculus II 4
   - MATH A202 Calculus III 4
   - MATH A302 Ordinary Differential Equations 3
   - PHYS A211 General Physics I 3
   - PHYS A211L General Physics I Lab 1
   - PHYS A212 General Physics II 3
   - PHYS A212L General Physics II Lab 1

*Note: ENGL A211 is specified as required course in the Civil Engineering curriculum. As an alternative, students may take ENGLA212 or ENGL A213 to satisfy the UAAGeneral Education Requirements in Written Communications, however, this may only be done if the student’s combined total of credits in the areas of Social Sciences, Humanities and Fine Arts is equal to or greater than 16 semester credits. For most students, this requires adding an additional course.

2. A Natural Science elective (minimum 3 credits) must be taken in addition to the 7 credit Natural Sciences General Education Requirement GEOLA111 is recommended. However, with the consent of an academic advisor, students may choose from the following list of alternative courses:
   - BIOLA105 Fundamentals of Biology I (4)
   - BIOLA371 Principles of Ecology (4)
   - CHEM A450 Environmental Chemistry (3)
   - GEOLA111 Physical Geology (4)
   - GEOLA115 Environmental Geology (3)
   - PHYS A303 Modern Physics (3)

Note: GEOLA111 is the recommended course.
3. Two (2) technical elective courses (minimum 6 credits) are required and may be chosen from the 400-level or (by petition) 600-level courses offered by the School of Engineering. Graduate courses may not be applied to both a baccalaureate and masters degree.

The technical elective courses used to meet this requirement must include a total of not less than two (2) semester units of design component. The following courses are acceptable in meeting the technical elective requirement.

<table>
<thead>
<tr>
<th>Design Units</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>CE A434</td>
<td>Timber Design (3)</td>
</tr>
<tr>
<td>2</td>
<td>CE A442</td>
<td>Environment System Design (3)</td>
</tr>
<tr>
<td>0</td>
<td>CE A603</td>
<td>Arctic Engineering (3)</td>
</tr>
<tr>
<td>3</td>
<td>CE A636</td>
<td>Multi-Story Building Structural Design(3)</td>
</tr>
<tr>
<td>1</td>
<td>CE A676</td>
<td>Coastal Engineering (3)</td>
</tr>
<tr>
<td>2</td>
<td>CE A681</td>
<td>Frozen Ground Engineering (3)</td>
</tr>
<tr>
<td>1</td>
<td>CE A682</td>
<td>Ice Engineering (3)</td>
</tr>
<tr>
<td>2</td>
<td>CE A684</td>
<td>Arctic Utility Distribution (3)</td>
</tr>
<tr>
<td>1</td>
<td>EQE A605</td>
<td>Chemical and Physical Water and Wastewater Treatment Processes (3)</td>
</tr>
<tr>
<td>1</td>
<td>EQE A606</td>
<td>Biological Treatment Processes (3)</td>
</tr>
<tr>
<td>1</td>
<td>ESM A401</td>
<td>Cost Estimating (3)</td>
</tr>
<tr>
<td>2</td>
<td>GEO A456</td>
<td>Geomatics and Civil Design (3)</td>
</tr>
</tbody>
</table>

4. A total of 132 credits is required for the degree, of which 42 credits must be upper-division.

5. All senior Engineering students are encouraged to take the Fundamentals of Engineering Examination as a preliminary step toward professional registration.

**Recommended Course Sequence**

To accommodate course prerequisites and scheduling, it is highly recommended students follow this course sequence:

**First Year**

- **Fall Semester (17 credits):**
  - CHEM A105 General Chemistry I 3
  - CHEM A105L General Chemistry I Lab 1
  - ENGL A111 Methods of Written Communication 3
  - ES A103 Engineering Graphics 3
  - ES A111 Engineering Science 3
  - MATH A200 Calculus I 4

- **Spring Semester (17 credits):**
  - CHEM A106 General Chemistry II 3
  - CHEM A106L General Chemistry II Lab 1
  - ES A201 Computer Techniques 3
  - GEO A166 Elements of Geomatic Measurements 3
  - MATH A201 Calculus II 4
  - COMM A111, A235, A237, or A241 3

**Second Year**

- **Fall Semester (17 credits):**
  - ENGL A211 Academic Writing about Literature 3
  - ES A209 Engineering Statics 3
  - MATH A202 Calculus III 4
  - PHYS A211 General Physics I 3
  - PHYS A211L General Physics I Lab 1
  - Social Sciences/Humanities/Fine Arts GER 3

- **Spring Semester (17 credits):**
  - ES A210 Engineering Dynamics 3
  - ES A331 Mechanics of Materials 4
  - MATH A302 Ordinary Differential Equations 3
  - PHYS A212 General Physics II 3
  - PHYS A212L General Physics II Lab 1
  - Social Sciences/Humanities/Fine Arts GER 3

**Third Year**

- **Fall Semester (15 credits):**
  - CE A334 Properties of Materials 2
  - ES A301 Engineering Analysis 3
  - ES A309 Elements of Electrical Engineering 3
  - ES A341 Fluid Mechanics 4
  - Social Sciences/Humanities/Fine Arts GER 3

- **Spring Semester (16 credits):**
  - CE A344 Water Resources Engineering 3
  - CE A402 Transportation Engineering 3
  - CE A431 Structural Analysis 4
  - ES A346 Basic Thermodynamics 3
  - Social Sciences/Humanities/Fine Arts GER 3

**Fourth Year**

- **Fall Semester (18 credits):**
  - CE A432 Steel Design 3
  - CE A435 Soil Mechanics 3
  - CE A441 Sanitary Engineering 3
  - Natural Sciences Elective 3
  - Technical Elective 3
  - Social Sciences/Humanities/Fine Arts GER 3

- **Spring Semester (15 credits):**
  - CE A422 Foundation Engineering 3
  - CE A433 Reinforced Concrete Design 3
  - CE A438 Design of Engineering Systems 3
  - ESM A450 Economic Analysis and Operations 3
  - Technical Elective 3

**FACULTY**

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ELECTRICAL ENGINEERING

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Engineering Building (ENGR), Room 201, (907) 786-1900

Electrical engineering encompasses the areas of computer applications and design, electrical power transmission and distribution, telecommunications, and electronics. The electrical engineer designs and oversees the construction, installation and maintenance of electrical systems providing light, heat and power. Engineers design the communications of telephone, radio and television as well as the transistor and integrated circuits used in these systems. People trained in computer engineering automate businesses, factories, pipelines and refineries; and design control systems and computers which guide trains, planes, and space vehicles. Even the test devices and tools of investigation - in medicine, in physics, in geology and in other sciences - are today largely electronic.

Because electrical engineering is based on mathematics, chemistry, and physics, students are introduced to the basic principles in these areas during their first two years of study. They are also exposed to a variety of introductory courses in engineering science and to courses in communication, the humanities, social sciences and/or fine arts.

TWO-YEAR PROGRAM
ELECTRICAL ENGINEERING

The School of Engineering offers a program of studies that allow the completion of the first two years of a 4-year program leading to the Bachelor of Science degree in Electrical Engineering. The program is coordinated with the University of Alaska Fairbanks (UAF) College of Science, Engineering and Mathematics. It allows students to transfer into the Electrical Engineering program at UAF as third year students with no loss of credit.

ADMISSIONS REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements located at the beginning of this chapter. In addition, students entering the undergraduate engineering program must have completed the following high school courses with grades of “C” or better:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Algebra</td>
<td>2</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>1/2</td>
</tr>
<tr>
<td>Physics</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry</td>
<td>1</td>
</tr>
</tbody>
</table>

It is recommended that students graduating from high school without satisfactorily completing the courses noted above enroll in the necessary courses to make up deficiencies during the summer session.

Only those students admitted to the undergraduate engineering program may take courses offered by the School of Engineering at the 200-level or above. Students not admitted to the program may petition the School of Engineering to be admitted to individual courses.

ADVISING

All undergraduate students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

ACADEMIC PROGRESS

All prerequisites for engineering courses must be completed with a grade of “C” or higher.

A student who is unable to earn a satisfactory grade in an engineering course during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space-available basis.

A student who has a semester grade point average (GPA) in engineering courses below 2.00 will be placed on academic warning by the School of Engineering. If a student on academic warning status receives a semester GPA for engineering courses of at least 2.00, that student will be removed from academic warning status by the School. Otherwise, they will be disqualified from further study in the School of Engineering and will not be permitted to attend engineering courses.

PROGRAM REQUIREMENTS

In order to complete the first two years of a 4-year program leading to the degree of Bachelor of Science in Electrical Engineering at UAF, students must complete the following courses (69 credits):

- MATH A200 Calculus I 4
- MATH A201 Calculus II 4
- MATH A202 Calculus III 4
- MATH A302 Ordinary Differential Equations 3
- CHEM A105 General Chemistry I 3
- CHEM A105L General Chemistry I Lab 1
- CHEM A106 General Chemistry II 3
- CHEM A106L General Chemistry II Lab 1
- PHYS A211 General Physics I 3
- PHYS A211L General Physics I Lab 1
- PHYS A212 General Physics II 3
- PHYS A212L General Physics II Lab 1
- ENGLA111 Methods of Written Communication 3
- ENGLA211 Academic Writing About Literature (3) 3
- or
- ENGLA213 Writing in the Social and Natural Sciences (3)
- COMM A111 Fundamentals of Oral Communication (3) 3
- or
- COMM A235 Small Group Communication (3)
- COMM A237 Interpersonal Communication (3) 3
- or
- COMM 241 Public Speaking (3)
- ES A111 Engineering Science 3
- ES A201 Computer Techniques 3
- ES A209 Engineering Statics 3
- ES A210 Engineering Dynamics 3
- EE A102 Introduction to Electrical Engineering 3
- EE A203 Fundamentals of Electrical Engineering I 4
- EE A204 Fundamentals of Electrical Engineering II 4
- Plus 6 credits of General Education Requirement courses in the areas of Humanities, Social Sciences and/or Fine Arts. 6

Note: The required courses do not include ES 103 (Engineering Graphics with AutoCAD). However, this course is considered to be valuable to student and they are encouraged to take the course if their schedules permit.
RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is highly recommended that students follow the course sequence shown below:

FIRST YEAR
Fall Semester (17 credits)
- CHEM A105 General Chemistry I 3
- CHEM A105L General Chemistry I Lab 1
- ENGL A111 Methods of Written Communication 3
- ES A111 Engineering Science 3
- MATH A200 Calculus I 4
- Social Science/Humanities/Fine Arts** 3

Spring Semester (17 credits)
- CHEM A106 General Chemistry II 3
- CHEM A106L General Chemistry II Lab 1
- EE A102 Introduction to Electrical Engineering 3
- ES A201 Computer Techniques 3
- MATH A201 Calculus II 4
- COMM A111, A235, A237 or A241 3

SECOND YEAR
Fall Semester (18 credits)
- EE A203 Fundamentals of Electrical Engineering I 4
- ENGL A211 or A213 3
- ES A209 Engineering Statics 3
- MATH A202 Calculus III 4
- PHYS A211 General Physics I 3
- PHYS A211L General Physics I Lab 1

Spring Semester (17 credits)
- EE A204 Fundamentals of Electrical Engineering II 4
- ES A210 Engineering Dynamics 3
- MATH A302 Differential Equations 3
- PHYS A212 General Physics II 3
- PHYS A212L General Physics II Lab 1
- Social Science/Humanities/Fine Arts** 3

** Those courses selected to meet the requirements in the areas of Social Sciences/Humanities/Fine Arts must be included in the list of courses that meet the UAAGeneral Education Requirements in these areas. Further, the selected courses should be approved by the student’s advisor.

FACULTY

Robert Miller, Director, AFREM@uaa.alaska.edu
Tom Miller, Professor-E.E., AFTPM@uaa.alaska.edu

GEOMATICS

www.engr.uaa.alaska.edu
Engineering Building (ENGR), Room 201, (907) 786-1900

The Department of Geomatics offers two degrees: A 2-year Associate of Applied Science degree in Geomatics; and a 4-year Bachelor of Science degree in Geomatics. Students seeking the baccalaureate degree may graduate in one of two emphasis areas: Survey Geomatics; or Geographic Information Systems (GIS). Students seeking continuing education for technical or professional enhancement will also find opportunities within the curriculum. The Geomatics program is science-based and includes:

- Land surveying using global positioning systems (GPS) and conventional techniques
- Automated mapping
- Computational analysis and adjustment
- Geodesy
- Principles of boundary law
- Geographic information systems (GIS)
- Digital photogrammetry
- Remote sensing and image analysis

The wide diversity in the profession creates a similar diversity of employment opportunities. The Associate of Applied Science degree in Geomatics prepares students for technician-level employment as land survey technicians or as automated mapping technicians. Those working as survey technicians frequently work outdoors, travel to various job locations, and enjoy an independent lifestyle. Automated mapping technicians work with the latest cartographic techniques and equipment and easily transfer skills learned in the geomatics courses to other disciplines.

The Bachelor of Science degree prepares students for a wide variety of professional-level opportunities. Since Alaska poses unique geomatic challenges, the curriculum emphasizes northern principles and practices, making UAAGraduates highly recruited in the Alaska marketplace and eligible for employment worldwide. Students will find employment in private industry, government, and municipal agencies. Geomaticians working at the professional level enjoy responsibility and a choice of indoor and outdoor employment with many opportunities for advancement and diversification.

The new high tech fields open employment in geographic information systems (GIS), photogrammetry, remote sensing, land surveying, automated mapping, land design and planning, survey engineering, and resource management positions. In Alaska, geomaticians work on State and Native land claims, mining claims, fishing leases, petroleum reserves, forest selections, transportation corridors, private developments, government and military projects. In Alaska and elsewhere, geomaticians work in land surveying, land development and design, mapping and tax assessment, the defense industry, environmental engineering assessment and management, public safety and welfare, medicine, transportation, agriculture, business, and natural sciences.
Professional predictors indicate that employment opportunities will be strong for the various geomatics specialties in Alaska and the Pacific Rim well into the 21st century. While enrolled in the program, students are eligible for cooperative employment programs with government agencies and with private industry during the summer and for intern programs during the school year.

The Department of Geomatics accommodates a wide variety of student objectives from entry level to professional preparation and encourages the non-traditional student to return for training in current practices and principles.

Students seeking professional licensing as Registered land Surveyors and those who are interested in specializing in Survey Geomatics or Geographic Information Systems (GIS) should enroll in the Bachelor of Science degree program. For the most effective planning, Bachelor degree candidates should declare their intent by the second semester of their Geomatics studies.

**ACCREDITATION**

The Bachelor of Science degree program in Geomatics at UAA is accredited by the Related Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

**ADVISING**

All undergraduate students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

Students are encouraged to consult the faculty in the Department of Geomatics for assistance in designing their course of study to ensure that all prerequisites have been met and that university and major degree requirements are understood and followed.

**PREREQUISITES**

All prerequisites for Geomatics courses must be completed with a grade of “C” or higher. A student who is unable to earn a grade of “C” or higher may repeat the course in order to earn a satisfactory grade.

**ASSOCIATE OF APPLIED SCIENCE, GEOMATICs**

**ADMISSION REQUIREMENTS**

**A. PREPARATION**

Students seeking the Associate of Applied Science degree in Geomatics should prepare for entrance into the program by completing the following high school courses:

- Mathematics: Algebra II
- English: Composition (Skill level as demonstrated by ACT, SAT, or UAA placement test to qualify for enrollment in ENGLA111)

The University offers courses to help students without this preparation to meet the skill level required in the Geomatics program. Insufficient preparation will increase the number of semesters required to complete either degree.

**B. GENERAL UNIVERSITY REQUIREMENTS**

See the beginning of this chapter for information on formal admission to undergraduate programs.

**C. COMPUTER LITERACY REQUIREMENT**

This degree requires computer competency which may be demonstrated prior to enrollment in any GEO or GIS course for which computer competency is a prerequisite. Students must have satisfactorily completed a 3-credit course in a computer language or an introductory course in data processing or microcomputers.

**GRADUATION REQUIREMENTS**

**ACADEMIC PROGRESS**

Students must complete all major requirement courses with a grade of “C” or higher.

**A. GENERAL UNIVERSITY REQUIREMENTS**

1. Complete the associate degree requirements located at the beginning of this chapter.
2. Complete the associate of applied science degree requirements located at the beginning of this chapter. Some of the major requirements will also fulfill associate of applied science degree general requirements. Students should coordinate choices carefully with their academic advisor in the Department of Geomatics.
B. MAJOR REQUIREMENTS

1. Complete 4 credits in physics:
   - PHYS A123 Basic Physics I (3)
   - PHYS A123L Basic Physics I Laboratory (1)
   or
   - PHYS A211 General Physics I (3)
   - PHYS A211L General Physics I Laboratory (1)

2. Complete one of the following:
   - CS A105 FORTRAN Programming (3)
   - CS A107 Pascal Programming (3)

3. Complete the following required courses:
   - ENGL A212 Technical Writing (3)
   - MATH A108 Trigonometry (3)
   - MATH A200 Calculus I (4)
   - GEO A137 Principles of Mapping (3)
   - GEO A155 Introduction to Geomatics (3)
   - GEO A157 Analytical and Digital Cartography (3)
   - GEO A158 Geomatics Computer Fundamentals (3)
   - GEO A166 Elements of Geomatics Measurements (4)
   - GEO A167 Remote Sensing and Image Analysis (4)
   - GEO A248 Digital Terrain Cartography (3)
   - GEO A256 Municipal and Civil Geomatics (4)
   - GEO A257 Elements of Photogrammetry (3)
   - GEO A267 Boundary Law I (4)
   - GIS A268 Elements of Geographic Information Systems (GIS) (4)

4. A total of 61 credits is required for this degree.

RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is highly recommended that students follow the course sequence shown below:

FIRST YEAR

Fall Semester (15 credits):
- ENGL A111 Methods of Written Communications (3)
- GEO A137 Principles of Mapping (3)
- GEO A155 Introduction to Geomatics (3)
- GEO A158 Geomatics Computer Fundamentals (3)
- MATH A108 Trigonometry (3)

Spring Semester (15 credits):
- GEO A157 Analytical and Digital Cartography (3)
- GEO A166 Elements of Geomatics Measurements (4)
- GEO A167 Remote Sensing and Image Analysis (4)
- MATH A200 Calculus I (4)

SECOND YEAR

Fall Semester (17 credits):
- GEO A256 Municipal and Civil Geomatics (4)
- GEO A257 Elements of Photogrammetry (3)
- PHYS A123/L Basic Physics I (4) or
  PHYS A211/L General Physics I (4)*
- COMM A111 Fundamentals of Oral Communication (3) or
  COMM A235 Small Group Communication (3)
- COMM A237 Interpersonal Communication (3)
  One course selected from:
  - CS A105 FORTRAN Programming (3)
  - CS A107 Pascal Programming (3)

*Note: PHYS A211 requires high school physics or PHYS A123 and Math A200 as prerequisites. Math A201 is required as a corequisite.

Spring Semester (14 credits):
- ENGL A212 Technical Writing (3)
- GEO A248 Digital Terrain Cartography (3)
- GEO A267 Boundary Law I (4)
- GIS A268 Elements of Geographic Information Systems (GIS) (4)

BACHELOR OF SCIENCE, GEOMATICS

A. PREPARATION

Students seeking the Bachelor of Science degree in Geomatics should prepare for entrance into the program by completing the following high school courses:
- Mathematics
  - Algebra II
  - Trigonometry
- Science
  - Physics
- English Composition
  - Skill level as demonstrated by ACT, SAT or UAA placement test to qualify for enrollment in ENGL A111

The University offers courses to help students without this preparation to meet the skill level required in the Geomatics program. Insufficient preparation will increase the number of semesters required to complete either degree.

B. ADMISSION REQUIREMENTS

See the beginning of this chapter for information on formal admission to undergraduate programs.

C. COMPUTER LITERACY REQUIREMENT

This degree requires computer competency which may be demonstrated prior to enrollment in any GEO or GIS course for which computer competency is a prerequisite.

Students must satisfactorily complete of a 3-credit course in a computer language or an introductory course in data processing or microcomputers.
GRADUATION REQUIREMENTS

ACADEMIC STANDARDS
Students must complete all courses under major requirements with a grade of "C" or higher.

A. GENERAL UNIVERSITY REQUIREMENTS
Complete the General University Requirements for baccalaureate degrees at the beginning of this chapter.

B. GENERAL EDUCATION REQUIREMENTS
Complete the General Education Requirements for baccalaureate degrees at the beginning of this chapter.

C. MAJOR REQUIREMENTS
1. Complete 8 credits in physics from one of the following sequences: 8
   PHYS A123 Basic Physics I (3)
   PHYS A123L Basic Physics I Laboratory (1)
   PHYS A124 Basic Physics II (3)
   PHYS A124L Basic Physics II Laboratory (1)
   or
   PHYS A211 General Physics I (3)
   PHYS A211L General Physics I Laboratory (1)
   PHYS A212 General Physics II (3)
   PHYS A212L General Physics II Laboratory (1)
   These credits must be in addition to the 7 Natural Sciences credits taken to complete the General Education Requirement.
2. Complete one of the following: 3
   CS A105 FORTRAN Programming (3)
   CS A107 Pascal Programming (3)
3. Complete the following:
   CS A207 C Programming 3
   ENGLA212 Technical Writing 3
4. Complete all of the following:
   MATH A200 Calculus I 4
   MATH A201 Calculus II 4
   MATH A202 Calculus III 4
5. Complete one of the following: 3
   MATH A302 Ordinary Differential Equations (3)
   MATH A314 Linear Algebra (3)
   AS A307 Probability and Statistics (3)
6. Complete all of the following:
   GEO A137 Principles of Mapping 3
   GEO A155 Introduction to Geomatics 3
   GEO A157 Analytical and Digital Cartography 3
   GEO A166 Elements of Geomatics Measurements 4
   GEO A167 Remote Sensing and Image Analysis 4
   GEO A248 Digital Terrain Cartography 3
   GEO A256 Municipal and Civil Geomatics 4
   GEO A257 Elements of Photogrammetry 3
   GEO A267 Boundary Law I 4
   GEO A355 Land Development and Design 3
   GEO A359 Geodesy and Map Projections 3
   GEO A365 Geomatic Adjustment and Analysis 4
   GEO A457 Boundary Law II 4
   GEO A460 Geomatics Design Project 3
   GEO A466 Geopositioning 4
   GIS A268 Elements of Geographic Information Systems (GIS) 4
   GIS A366 Spatial Information Analysis and Modeling 3
7. Complete at least 12 credits in one of the emphasis areas.

SURVEY GEOMATICS EMPHASIS
1. Complete the following:
   GEO A358 Programming for Digital Cartography 3
2. Complete 9 credits from the following: 9
   GEO A456 Geomatics and Civil Design (3)
   GEO A459 Geodetic Geomatics (3)
   GEO A467 Analytical and Digital Photogrammetry (3)
   GEO A490 Selected Advanced Topics in Geomatics (1-6)
   GIS A369 Land Information Systems and Legal Interpretations (3)

GEOGRAPHIC INFORMATION SYSTEMS (GIS) EMPHASIS
1. Complete the following:
   GIS A458 Design and Management of Spatial Data 3
2. Complete 9 credits from the following: 9
   GEO A490 Selected Advanced Topics in Geomatics (1-6)
   GIS A468 Integration of Geomatic Technologies (3)
   GIS A369 Land Information Systems and Legal Interpretation (3)
   GIS A370 Remote Sensing and GIS for Natural Resource (3)
   GIS A470 GIS for Facility Management (3)
8. A total of 131 credits is required for the degree of which 42 must be upper division.

RECOMMENDED COURSE SEQUENCE
To accommodate course prerequisites and scheduling, it is highly recommended that students follow the course sequence shown below:

FIRST YEAR
Fall Semester (16 credits)
   GEO A155 Introduction to Geomatics 3
   GEO A157 Analysis and Digital Cartography 3
   MATH A200 Calculus I 4
   ENGLA111 Methods of Written Communication 3
   Complete one of the following:
   COMM A111 Fundamentals of Oral Communication 3
   COMM A235 Small Group Communication 3
   COMM A237 Interpersonal Communication 3
   COMM A241 Public Speaking 3

Spring Semester (18 credits)
   GEO A157 Analytical and Digital Cartography 3
   GEO A166 Elements of Geomatics Measurements 4
   GEO A167 Remote Sensing and Image Analysis 4
   MATH A201 Calculus II 4
   Complete one of the following:
   CS A105 FORTRAN Programming (3)
   CS A107 Pascal Programming (3)
## SECOND YEAR

### Fall Semester (18 credits)
- GEO A248 Digital Terrain Cartography 3
- GEO A256 Municipal and Civil Geomatics 4
- GEO A257 Elements of Photogrammetry 3
- PHYS A123 Basic Physics I (3) 4
- PHYS A123L Basic Physics I Laboratory (1) or
- PHYS A211 General Physics I (3)
- PHYS A211L General Physics I Laboratory (1)
- MATH A202 Calculus III 4

### Spring Semester (18 credits)
- CS A207 C Programming 3
- GEO A267 Boundary Law I 4
- GIS A268 Elements of Geographic Info. Systems (GIS) 4
- ENGLA212 Technical Writing 3
- PHYS A124 Basic Physics II (3) 4
- PHYS A124L Basic Physics II Laboratory (1) or
- PHYS A212 General Physics II (3)
- PHYS A212L General Physics II Lab (1)

## THIRD YEAR

### Fall Semester (18 credits)
- GEO A355 Land Development and Design 3
- GEO A359 Geodesy and Map Projections 3
- GEO/GIS Emphasis course selected from: 3
- GEO A358 Programming, for Digital Cartography (3)
- GIS A366 Spatial Information Analysis and Modeling 3
- A three (3) credit course selected from: 3
  - MATH A314 Linear Algebra (3)
  - MATH A302 Ordinary Differential Equations (3)
  - AS A307 Probability and Statistics (3)
  - Elective Natural Science GER 3
  - Elective Fine Arts GER 3

### Spring Semester (14 credits)
- GEO A365 Geomatic Adjustment and Analysis 4
- Natural Science Elective (with Lab) GER 4
- Select 3 credits from the GEO/GIS 3
- GIS A458 Design & Management of Spatial Data (3)
- Emphasis Elective course (3)

## FOURTH YEAR

### Fall Semester (16 credits)
- GEO A457 Boundary Principles & Evidence 4
- GEO A460 Geomatics Design Project 3
- Select 3 credits from the GEO or the GIS 3
  - Emphasis Elective courses 3
  - Humanities Elective GER 3
  - Social Science Elective GER 3

### Spring Semester (12 credits)
- GEO A466 Geopositioning 3
- Select 3 credits from the GEO or the GIS 3
  - Emphasis Elective courses 3
  - Humanities Elective GER 3
  - Social Science Elective GER 3

## FACULTY

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MECHANICAL ENGINEERING

www.engr.uaa.alaska.edu

Engineering Building (ENG), Room 201, (907) 786-1900

Mechanical engineers conceive, plan, design and direct the manufacturing, distribution and operation of a wide variety of devices, machines and systems for energy conversion, environmental control, materials processing, transportation, materials handling and other purposes. Mechanical engineers are engaged in creative design, applied research, development and management.

Because mechanical engineering is based on mathematics, chemistry, and physics, students are introduced to the basic principles in these areas during their first two years of study. They are also exposed to a variety of introductory courses in engineering science and to courses in communication, the humanities, social sciences and/or fine arts.

TWO-YEAR PROGRAM
MECHANICAL ENGINEERING

The School of Engineering offers a program of studies that allow the completion of the first two years of a 4-year program leading to the Bachelor of Science degree in Mechanical Engineering. The program is coordinated with the University of Alaska Fairbanks (UAF) College of Science, Engineering and Mathematics. It allows students to transfer into the Mechanical Engineering program at UAF as 3rd year students with no loss of credit.

ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements located at the beginning of this chapter. In addition, students entering the undergraduate engineering program must have completed the following high school courses with grades of “C” or better:

- English: 3 years
- Algebra: 2 years
- Trigonometry: 1/2 year
- Physics: 1 year
- Chemistry: 1 year

It is recommended that students graduating from high school without satisfactorily completing the courses noted above enroll in the necessary courses to make up deficiencies during the summer session.

Only those students admitted to the undergraduate engineering program may take courses offered by the School of Engineering at the 200-level or above. Students not admitted to the program may petition the School of Engineering to be admitted to individual courses.

ADVISING

All undergraduate students are encouraged to meet with their academic advisor each semester for the purpose of reviewing their academic progress and planning future courses. It is particularly important for students to meet with their advisor whenever academic difficulties arise.

ACADEMIC PROGRESS

All prerequisites for engineering courses must be completed with a grade of “C” or higher.

A student who is unable to earn a satisfactory grade in an engineering course during their initial enrollment may attempt to earn a satisfactory grade one additional time on a space-available basis.

A student who has a semester grade point average (GPA) in engineering courses below 2.00 will be placed on academic warning by the School of Engineering. If a student on academic warning status receives a semester GPA for engineering courses of at least 2.00, that student will be removed from academic warning status by the School. Otherwise, they will be disqualified from further study in the School of Engineering and will not be permitted to attend engineering courses.

PROGRAM REQUIREMENTS

In order to complete the first two years of a 4-year program leading to the degree of Bachelor of Science in Mechanical Engineering at UAF, students must complete the following courses (68 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH A200</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH A201</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH A202</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH A302</td>
<td>Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A105</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A105L</td>
<td>General Chemistry I Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEM A106</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM A106L</td>
<td>General Chemistry II Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS A211</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS A211L</td>
<td>General Physics I Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS A212</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYS A212L</td>
<td>General Physics II Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENGLA111</td>
<td>Methods of Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGLA211</td>
<td>Academic Writing About Literature (3)</td>
<td>3</td>
</tr>
<tr>
<td>COMM A111</td>
<td>Fundamentals Of Oral Communication (3)</td>
<td>3</td>
</tr>
<tr>
<td>COMM A235</td>
<td>Small Group Communication (3)</td>
<td></td>
</tr>
<tr>
<td>COMM A237</td>
<td>Interpersonal Communication (3)</td>
<td></td>
</tr>
<tr>
<td>COMM A241</td>
<td>Public Speaking (3)</td>
<td></td>
</tr>
<tr>
<td>ES A111</td>
<td>Engineering Science</td>
<td>3</td>
</tr>
<tr>
<td>ES A201</td>
<td>Computer Techniques</td>
<td>3</td>
</tr>
<tr>
<td>ES A209</td>
<td>Engineering Statics</td>
<td>3</td>
</tr>
<tr>
<td>ES A210</td>
<td>Engineering Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ES A331</td>
<td>Mechanics of Materials</td>
<td>4</td>
</tr>
<tr>
<td>ES A346</td>
<td>Basic Thermodynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus 9 credits of General Education Requirement courses in the areas of Humanities, Social Sciences and/or Fine Arts.

Note: The required courses do not include ES A103 (Engineering Graphics with AutoCAD). However, this course is considered to be valuable to student and they are encouraged to take the course if their schedules permit.
RECOMMENDED COURSE SEQUENCE

To accommodate course prerequisites and scheduling, it is highly recommended that students follow the course sequence shown below:

FIRST YEAR

Fall Semester (17 credits):
- CHEM A105 General Chemistry I 3
- CHEM A105L General Chemistry I Laboratory 1
- ENGLA111 Methods of Written Communication 3
- ES A111 Engineering Science 3
- MATH A200 Calculus I 4
- Social Science/Humanities/Fine Arts** 3

Spring Semester (17 credits):
- CHEM A106 General Chemistry II 3
- CHEM A106L General Chemistry II Laboratory 1
- COMM A111, A235, A237 or A241 3
- ES A201 Computer Techniques 3
- MATH A201 Calculus II 4
- Social Science/Humanities/Fine Arts** 3

SECOND YEAR

Fall Semester (17 credits):
- ENGLA211 or A213 3
- ES A209 Engineering Statics 3
- MATH A202 Calculus III 4
- PHYS A211 General Physics I 3
- PHYS A211L General Physics I Laboratory 1
- Social Science/Humanities/Fine Arts** 3

Spring Semester (17 credits):
- ES A210 Engineering Dynamics 3
- ES A331 Mechanics of Materials 4
- ES A346 Basic Thermodynamics 3
- MATH A302 Differential Equations 3
- PHYS A212 General Physics II 3
- PHYS A212L General Physics II Laboratory 1

** These courses selected to meet the requirements in the areas of Social Sciences/Humanities/Fine Arts must be included in the list of courses that meet the UAAGeneral Education Requirements in these areas. Further, the selected courses should be approved by the student’s advisor.

FACULTY

Robert Miller, Director, AFREM@uaa.alaska.edu
CHAPTER 10

GRADUATE ADMISSION AND DEGREE PROGRAMS

Graduate School
Graduate General University Requirements
Graduate Programs by Schools and Colleges
GRADUATE SCHOOL

Graduate education is an integral part of the University of Alaska Anchorage (UAA). While at UAA, graduate students develop academically and professionally. Students who have completed UAA graduate programs possess the knowledge and skill necessary to succeed in further education and to excel in their chosen professions. Whether the degree is required for advancement, personal and professional growth or for other goals, students may expect the challenges and rewards of high quality graduate education.

Upon successful completion of their graduate program, students will have demonstrated mastery of their disciplines. They will have participated in quality research activities either in the completion of their theses or the development of their graduate projects.

Appropriate comprehensive exams allow students to express the knowledge they have acquired in forms unique to their respective programs.

To ensure the most beneficial educational experience, students’ preparation and likelihood of success in their programs are carefully assessed and validated. Entrance requirements provide an opportunity for students to document their credentials and demonstrate readiness for graduate studies. If an entrance exam is required, the nature of that exam is determined by the appropriate discipline. As they progress in their studies, students can expect responsible advising from mentors in their programs.

Graduate students are subject to relevant policies contained in the complete UAA catalog, as well as individual program requirements.

ADMISSION REQUIREMENTS

Students who have earned or have nearly completed a baccalaureate degree from a regionally accredited institution in the United States, or a foreign equivalent, may apply for admission to graduate study or to fifth year certification programs at UAA.

Admission is granted to applicants who have received their baccalaureate degree and whose credentials indicate their ability to pursue graduate work. Each graduate program has specific standards for admission. Applicants must have either a cumulative grade point average (GPA) of 3.00 (B average on a 4.00 scale), or alternatively meet the GPA admission requirements of the specific graduate program to which they are applying. Some programs also require scores from national admissions examinations, such as the Graduate Record Exam (GRE) or the Miller’s Analogy Test (MAT). Additional information, such as writing samples, goal statements, letters of recommendation, research proposals, and/or an interview may be required by specific programs.

Actual deadlines for submission of the admission materials vary by program. No more than nine (9) credits may be completed in the student’s graduate program before application for admission. Upon receipt of the required information, Enrollment Services will forward each student’s admission packet, consisting of the academic records and test scores, to the Dean or designee of the specific program for consideration. All of these materials become the property of UAA and are only released or copied for use within the University of Alaska system. Additional departmental admission requirements requested by the student’s school or college are to be submitted directly to the Program Coordinator.

APPLICATION FOR ADMISSION

When making application for admission to UAA, the student must submit the following directly to Enrollment Services:

1. A completed UAA Graduate Application for Admission and appropriate fee.
2. Official transcript(s), reflecting graduate level credits and credits pertaining to the baccalaureate degree, from each institution attended. Transcripts are to be requested by the student and must be submitted in an officially sealed envelope.
3. If required by the specific graduate program, official scores from entrance exams, such as the Graduate Records Exam (GRE) or the Miller’s Analogy Test (MAT). Official scores are to be requested by the student and sent directly by the testing agency.
4. Scores from the Test of English as a Foreign Language (TOEFL) if English is not the applicant’s native language or was not the language of instruction for the applicant’s baccalaureate degree. TOEFL may be waived if the applicant has been a long-term resident of the United States or of another English-speaking country.
5. Prior to being accepted, an applicant with a transcript from an institution outside the United States or Canada must provide an official statement of equivalency from a recommended credentials evaluation service and, if necessary, an English translation of the transcript. A fee is normally required by the evaluation service and is paid directly to them. The amount varies depending upon the type and complexity of the evaluation.

ADDITIONAL DEPARTMENTAL ADMISSION REQUIREMENTS

Specific graduate programs may require additional materials or admission requirements that are to be submitted directly to or arranged with the program chair. Please contact the department for details.

Examples are as follows:
1. Departmental application for admission.
2. Personal interview.
3. Statements detailing the applicant’s graduate plans and expectations.
4. Writing samples.
5. Letters of recommendation from professors or others particularly qualified to attest to the applicant’s qualifications for graduate study.
6. Research proposals or other information indicative of the applicant’s potential for graduate study.

FORMAL ACCEPTANCE TO GRADUATE PROGRAMS

Once all required admission documents have been received by Enrollment Services, the student’s admission packet is forwarded to the dean or designee of the specific program. The acceptance decision is made by the Dean, Director and/or faculty of the program, who inform Enrollment Services of the decision. Enrollment Services sends the official Certificate of Admission directly to the applicant. Acceptance does not establish candidacy in a graduate program (see Advancement to Candidacy).
CONDITIONAL ADMISSION

Students who expect to receive their baccalaureate degree from a regionally accredited institution within two semesters (up to three semesters if including summer) may apply for admission to a graduate program. Formal acceptance becomes final only after the baccalaureate degree is completed and conferred, and all other requirements for admission are met.

Students who show potential for success in graduate studies but do not meet all the admission requirements of a program may be conditionally admitted. Conditions are established by the Dean, Director and faculty of the program, who are responsible for monitoring conditional status. Enrollment Services sends the Certificate of Conditional Admission directly to the applicant. If the requirements to remove the terms of conditional admission are not satisfied, the student may be removed from graduate degree-seeking status. All terms of conditional admission must be satisfied prior to advancement to candidacy.

NON-DEGREE SEEKING STUDENT

Non-degree-seeking students who wish to register for graduate courses must have the Department Chair’s or faculty member’s signature. Registration as a non-degree seeking student implies no commitment by the University to the student’s later admission to a degree program. Non-degree-seeking students may not qualify for some financial aid benefits or the International Student Form I-20 A.

TRANSFER CREDITS

Up to 9 semester credits not previously used to obtain any other degree or certificate may be transferred to UAA from a regionally accredited institution and accepted toward a graduate degree or certificate. Quarter credits will be converted to semester credits by multiplying quarter credits by two-thirds. Acceptance of transfer credits toward program requirements is at the discretion of the individual program.

CHANGING DEGREE PROGRAMS

Graduates who wish to change degree programs must formally apply for admission to the new program through Enrollment Services and pay the appropriate fee. This applies both to changes between schools/colleges and to different degrees within a particular school or college, such as a change from the MFA in Creative Writing to the MA in English. Students will be expected to meet all admission and program requirements of their new major or emphasis area.

Students may pursue concurrent degrees as long as they have formally applied and been accepted to each program through Enrollment Services.

CHANGING MAJORS OR EMPHASIS AREAS

Students who wish to change majors or emphasis areas within the same degree and school or college, such as from an M.Ed. in Master Teacher to an M.Ed. in Special Education may do so by completing a Graduate Change of Major or Emphasis Area form through Enrollment Services. Students will be expected to meet all admission and program requirements of their new major or emphasis area. Students who change their major or emphasis area after being advanced to candidacy must submit a revised Official Graduate Studies Plan to Enrollment Services through their advisor/committee.

GRADUATE ADVISOR

The Dean or designee of the appropriate school/college offering the graduate program appoints a Graduate Advisor for each student accepted to a graduate program. In some graduate programs not requiring a thesis or major research project, the advisor may fill the role of the Graduate Studies Committee.

GRADUATE STUDIES COMMITTEE

For graduate programs with a thesis or major research project, the advisor and the student select a Graduate Studies Committee as part of the process of advancement to candidacy. The committee must consist of at least 3 UAA faculty including the chair, who shall normally be a full-time faculty member. One faculty committee member may be from a discipline outside the student’s school or college. Additional members who are not UAA faculty, but have appropriate professional credentials, may be included with the approval of the Dean or designee, the committee chair, and the student. The committee members and chair must agree to serve and must be approved by the Dean or designee. Any changes to the committee structure require the approval of the Dean or designee, and the committee chair.

RESPONSIBILITIES OF GRADUATE ADVISOR AND/OR COMMITTEE

The division of responsibility between the advisor and/or committee is determined at the program level. The graduate advisor and/or committee will:

1. Review the graduate student’s Official Graduate Studies Plan, insuring that it includes: the Graduate General University Requirements; University Requirements for Graduate Degrees; all courses required for the degree or certificate; a thesis or major research project, if required; a written or oral comprehensive examination, or thesis/project defense; any special program requirements; and arrangements to remove any deficiencies in the student’s academic background.

2. Approve the Official Graduate Studies Plan and application for candidacy at the time of advancement to candidacy.

3. Monitor the student’s progress and timely completion of all requirements in the Official Graduate Studies Plan (see Continuous Registration).

4. Monitor the timely submission of the Official Graduate Studies Plan and other documents to Enrollment Services.

5. Review and approve any changes to the Official Graduate Studies Plan, directing timely submission of the revised plan to Enrollment Services.

6. Review and approve the thesis or major research project, including initial proposals, according to procedures established by the individual graduate program.

7. Review, and approve requests for temporary leaves of absence which, if approved, will result in the student being placed on inactive status.

8. Administer and assess the comprehensive exam and/or thesis defense.
OFFICIAL GRADUATE STUDIES PLAN

The Official Graduate Studies Plan formally establishes the specific program requirements which will, upon satisfactory completion, entitle the student to receive the graduate degree or certificate. The plan is based upon the catalog requirements for the graduate degree or certificate program to which the student has been accepted. The plan becomes official once it is approved by the Dean, Director and/or faculty of the program and is filed with Enrollment Services. Students are expected to complete all requirements listed on their Official Graduate Studies Plan, as well as all Graduate General University Requirements and University Requirements for Graduate Degrees. Any revision to the plan will need to be submitted to Enrollment Services through the graduate advisor/committee.

ADVANCEMENT TO CANDIDACY

After demonstrating an ability to succeed in graduate study as defined by the relevant graduate program, the student may apply for advancement to candidacy. Advancement to candidacy status is a prerequisite to graduation and is determined by the Dean, Director and/or faculty of the program. Candidacy is the point in a graduate study program at which the student has demonstrated an ability to master the subject matter in the program and has progressed to the level at which a graduate studies plan can be approved. To be approved for candidacy a student must:

1. Be in good standing as defined in the Good Standing policy.
2. Demonstrate competence in the methods and techniques of the discipline.
3. Receive approval of the thesis or major research project proposal from the student’s Graduate Studies Committee.
4. Satisfy all prerequisites and remove all academic deficiencies.
5. Satisfy all terms of a conditional admission.

CONTINUOUS REGISTRATION

Graduate students are expected to make continuous progress in their graduate program from admission through graduation. Continuous registration (except summer session) is required. Continuous registration will be required beginning the semester following admission to the graduate program. Continuous registration allows students to remain active in the graduate program while physically absent from the campus.

Students must be continuously registered in at least 1 graduate credit applicable to the graduate program, or they must pay the continuous registration fee for every fall and spring semester until they complete all requirements for their degree or certificate. Students must also register or pay the continuous registration fee for the summer session if they use university facilities or consult with faculty during the summer session.

This fee can be paid during each semester’s registration period or in Enrollment Services by the end of week 12 of the semester. Upon registration and payment of the continuous registration fee, a graduate student is considered active for the current semester. Students not making continuous progress or not on an approved leave of absence (see Leave of Absence) will be removed from graduate degree-seeking status.

LEAVE OF ABSENCE

While graduate students are expected to make continuous progress toward completion of their graduate program, there are instances where continuous registration is not possible. Students who need to temporarily suspend their studies must apply for a leave of absence through their advisor and committee chair. If the leave is approved, the student is placed on inactive status. Inactive status does not negate the policy which requires that all credits counted toward the degree or certificate, including transfer credits, be earned within a consecutive seven-year period prior to graduation. Students who fail to make continuous progress (see Continuous Registration) or to obtain an approved leave of absence may be removed from graduate degree-seeking status.

APPLICATION FOR GRADUATION

The graduate student must submit an Application for Graduation with the application fee to Enrollment Services no later than the end of week two of the semester in which they intend to graduate. Applications received after the deadline will be processed for the following semester. Students who apply for graduation but do not complete degree or certificate requirements by the end of the semester must re-apply for graduation. The application fee must be paid with each Application for Graduation.

GOOD STANDING

Any graduate student who maintains a 3.00 (B) GPA in all course work that meets their graduate program requirements and who is not on probation, is considered to be in good standing. For students admitted to candidacy, course work consists of those courses identified on the Official Graduate Studies Plan.

PROBATION

A graduate student whose GPA falls below 3.00 (B) in courses applicable to their graduate program, or a graduate student who, for reasons specified in writing by the student’s advisor/committee and/or Dean or designee, is not making continuous satisfactory progress toward completing the program requirements will be placed on probation. If the requirements to remove probation are not satisfied within one semester (excluding summer), the student will be removed from graduate degree-seeking status. Each school/college has developed written procedures to deal with appeals arising from removal from graduate degree-seeking status.

REMOVAL FROM GRADUATE DEGREE-SEEKING STATUS

A graduate student’s academic status may be changed to “non-degree-seeking” if the requirements to remove conditional admission or probation are not satisfied or if minimum academic standards are not met. In some cases, students may be removed from graduate degree-seeking status without having first been placed on probation (see non-degree-seeking students).

ACADEMIC APPEALS

Students have the right to appeal academic actions (see Academic Appeals, Chapter 8).
**Reinstatement to Graduate Degree-Seeking Status**

Graduate students who have been removed from graduate degree-seeking status for failing to meet academic standards may apply for reinstatement to a graduate program after one calendar year from the semester in which they were removed from graduate degree-seeking status. When re-applying to graduate studies, it is the student’s responsibility to demonstrate their ability to succeed in the graduate program.

Graduate students who have been removed from graduate degree-seeking status for not making continuous progress (see Continuous Registration) must re-apply for graduate study and pay the appropriate fee.

Reinstated graduate students must re-apply for candidacy and may or may not be required to meet the program requirements which are in effect at the time of reinstatement.

**Full-Time/part-Time Status**

A student who has been admitted to a UAA graduate program and is enrolled at UAA for 9 or more 600-level credits is classified as full-time. Courses at the 400 level will count toward full-time status only if they are applicable to the degree program. A graduate student enrolled at UAA for less than nine credits is classified as part-time.

Audited courses, Continuing Education Units (CEU’s), and Continuous Registration are not included in the computation of the student’s full-time or part-time status.

**Determining Program Requirements**

A graduate student’s program is based upon the catalog requirements for the relevant graduate degree or certificate program which are in effect at the time the student was accepted.

Reinstated graduate students must re-apply for candidacy and may be required to meet the program requirements which are in effect at the time of reinstatement.

**Graduate General University Requirements**

General university requirements for all graduate degrees are as follows:

1. A Grade Point Average (GPA) of at least 3.00 (B) must be earned in courses identified in the Official Graduate Studies Plan.
2. Only 400- and 600-level courses approved by the graduate student’s Graduate Advisor, Dean or designee, and Graduate Studies Committee, may be counted toward graduate program requirements. Graduate Students enrolled in 400-level courses which they intend to apply to their graduate program will be expected to complete additional course work requirements.
3. In 400-level courses, a minimum grade of “B” is required for the course to count toward the program requirements.
4. Courses at the 500-level are for professional development and are not applicable toward any degree.
5. In 600-level courses, a grade of “C” is minimally acceptable, provided the student maintains a cumulative GPA of 3.00 (B) in all courses applicable to the graduate program. At least 21 credits must be taken at the graduate level (600) for any master’s degree, including thesis and research credits. For performance comparison only, in 600-level courses a grade of “P” (Pass) is equivalent to a B or higher, but does not enter into the GPA calculation.

6. Up to 9 semester credits not used toward any other degree or certificate may be transferred to UAA from an accredited institution and counted toward a degree or certificate. Quarter credits will be converted to semester credits by multiplying quarter credits by two-thirds. Acceptance of transfer credit toward program requirements is at the discretion of the individual program.
7. Individual program Deans may allow credit earned at other universities in the Statewide system (i.e. University of Alaska Fairbanks and University of Alaska Southeast), excluding thesis credit and credit used toward another degree or certificate, to be transferred to UAA, as long as at least nine credits applicable to the student’s program are earned at UAA after acceptance into the program.
8. Courses taken by correspondence, credit by examination, or graded Credit/No Credit (CR/NC) do not count toward graduate program requirements. They may, however, be used to satisfy prerequisites or to establish competency in a subject, thus allowing the advisor or committee to waive certain courses in an established program, as long as the total credits in the program remain the same.
9. All credits counted toward the degree or certificate, including transfer credits, must be earned within the consecutive seven-year period prior to graduation.
10. Students must be continuously registered throughout their graduate program (see Continuous Registration).

**University Requirements for Graduate Degrees**

In addition to the Graduate General University Requirements, all graduate students must meet the following requirements:

1. The students must complete at least 30 approved semester credits beyond the baccalaureate degree. At least 24 credits in every graduate degree must consist of courses other than thesis and/or a research project.
2. The student must complete all requirements established by the program and must pass a written or oral comprehensive examination, or thesis/project defense.
3. When an oral comprehensive examination and/or thesis defense is required, the student may select an outside reviewer approved by the Dean or designee of the program to participate in the oral comprehensive examination to assure that the examination or defense is fair and appropriate. The outside reviewer is a faculty member from another department in the university or other qualified individual in the area in which the student is seeking their degree.
4. All theses must meet general UAA requirements for format as determined by the UAA Consortium Library.

**University Requirements for Certificates**

Some graduate level certificates are available at UAA. The School of Education offers certificates in certain programs through the Department of Education. Requirements vary, and applicants are expected to be aware of and meet the requirements of the program into which they are accepted.
**Doctoral Degrees**

UAAdo not confer doctor’s degrees at this time; however, several cooperative programs exist with other universities, allowing some course work to be completed at UAAand the degree to be granted by the other university.

**School or Program Requirements**

Requirements vary by individual program. Some programs may be more restrictive than the Graduate General University Requirements or the University Requirements for Graduate Degrees. Students should contact the appropriate school or college for specific program requirements.

**Additional Master’s Degrees**

Students who have received a master’s degree from a regionally accredited college or university may earn another master’s degree by completing at least 21 resident credits beyond the previous master’s degree. The student must meet all the Graduate General University Requirements, University Requirements for Graduate Degrees, School or College Requirements, and Program Requirements; fulfilling all university, college, and program requirements may require more than the minimum of 21 credits beyond the previous master’s degree. If the 21 additional credits and other requirements have been earned for each additional degree, two or more degrees may be awarded simultaneously.

**Interdisciplinary Studies Degree**

A student who has received a baccalaureate degree from a regionally accredited institution and whose credentials indicate the ability to pursue graduate work may develop an interdisciplinary studies degree program (MAor MS). He/she may apply and meet all requirements for graduate admission specifying an interdisciplinary studies major. The proposed program must differ significantly from and may not substitute for an existing UAAgraduate degree program. The student may select no more than one-half of his/her program credits from one existing graduate degree program. Courses must come from two or more disciplines (i.e., subjects). A minimum of 21 credits must be drawn from existing, approved 600-level courses. No more than 9 credits of directed study, independent study and/or individual research may be included in an Interdisciplinary Studies degree. In addition to the requirements noted above, students must comply with the following procedures:

1. The student will submit a UAAGraduate Application for Admission (Interdisciplinary Studies Major) with the appropriate fee to Enrollment Services.

2. The student will develop an interdisciplinary studies proposed program plan specifying the degree (MAor MS) and title or concentration. In developing this proposal, the student should review all graduate degree policies and procedures. To receive an Interdisciplinary Studies graduate degree from UAA, the student must incorporate into their proposal all Graduate General University Requirements, University Requirements for Graduate Degrees, and any school/college requirements applicable. All such requirements must be satisfied prior to conferral of the degree.

3. The student will select a Graduate Studies Committee of at least 3 faculty members from the appropriate academic disciplines. The committee members and chair must represent all concentration areas of 9 credits or more. The committee members must agree to serve and be approved by the appropriate Dean(s) or designee(s).

4. The student will select 1 faculty member to chair the committee and to serve as their Graduate Advisor. The chair must agree to serve and must be approved by the appropriate Dean(s) or designee(s).

5. The student will present the proposal to the committee and chair for preliminary review and approval. If the committee and chair support the proposal, it will be forwarded to the appropriate academic Dean(s) or designee(s). If the proposal and committee structure are approved, the proposal is then submitted to Enrollment Services.

6. Upon receipt of the proposal and all required admission information, Enrollment Services will forward the student’s admission packet to the Associate Vice Provost for Research for final approval. If the proposal and committee structure are approved by the Associate Vice Provost for Research, it will become the student’s Official Graduate Studies Plan.

7. The graduate studies plan and complete admission packet will then be forwarded to the specific graduate programs for an acceptance decision. Acceptance is determined by the Dean, Director and/or faculty of the affected graduate programs, who then inform Enrollment Services of their decision. Enrollment Services sends the official Certificate of Admission directly to the student. Acceptance does not establish candidacy in the program.

8. Once accepted to graduate study, the student will work with their advisor and committee to insure that satisfactory progress is made toward completing degree requirements. After demonstrating an ability to succeed in graduate study, as defined by the committee and advisor, the student may apply for advancement to candidacy status (see Continuous Registration and Advancement to Candidacy).
EXCHANGE PROGRAMS

BIOMEDICAL

The Biomedical Program is affiliated with WWAMI, an educational agreement between the University of Washington School of Medicine (UWSM) and the states of Washington, Wyoming, Alaska, Montana, and Idaho. Through this program, UWSM accepts 10 certified Alaska residents each year into its entering class. Students in the program are enrolled concurrently at the University of Alaska Anchorage (UAA) and UWSM and receive their entire first year of medical education at the University of Alaska Anchorage. After completion of the first year, the students are headquartered in Seattle for the remaining three years of their medical education. UWSM medical students have the option of receiving clinical training in family medicine, internal medicine, pediatrics, psychiatry, and obstetrics/gynecology in Alaska. UWSM participates in the American Medical College Application Service (AMCAS) and all applicants must take the Medical College Admission Test (MCAT) in order to be considered. Acceptance into the program is offered through the Admissions Committee of UWSM. UAA can provide all of the course work needed to be competitive for acceptance into the WWAMI Program. For more information concerning WWAMI or a premedical curriculum at UAA, students can contact the office of the Biomedical Program at (907) 786-4789.

WESTERN REGIONAL GRADUATE PROGRAM

UA Aparticipates in the Western Regional Graduate Program (WRGP), a program of the Western Interstate Commission for Higher Education (WICHE). This program makes many high-quality graduate programs available to WICHE-state students at a reasonable cost. More importantly, WRGP includes most of the Western States. Through WRGP, residents of Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming are eligible to enroll at resident tuition in graduate programs in these 14 states. Currently, there are over 100 master’s and doctoral programs. Additional programs may be approved.

Information about the available Western Regional Graduate Programs may be obtained from Enrollment Services. A brochure describing these opportunities is also available from:

WICHE Student Exchange Program
P. O. Drawer P
Boulder, CO 80301-9752
ANTHROPOLOGY

The MA degree in Anthropology, with emphases in general or applied Anthropology, is designed to provide a rigorous background in contemporary theory and practice in anthropology, particularly through the use of proseminars, internships, and independent research. The MA degree requires a research-based thesis. Within the MA program, the Applied Anthropology emphasis offers specialized tracks designed to train students in applied aspects of anthropology that may be employment related. The Applied Cultural Anthropology track identifies and assists in resolving current social issues in their cultural dimensions. The Applied Biological Anthropology track encompasses forensic anthropology and other practical applications of physical anthropology. The Cultural Resource Management track involves the inventory, assessment, and conservation of archaeological sites and remains as a part of a larger management framework.

MASTER OF ARTS, ANTHROPOLOGY

ADMISSIONS REQUIREMENTS

See graduate admission requirements. Deadline for application: March 15 for fall admission, November 15 for spring admission.

Students seeking admission into the Anthropology MA degree program must meet the following requirements (1-3) and must submit the following documents (4-6):

1. Although graduating college or university seniors are invited to apply, no student may be formally admitted to graduate study until the baccalaureate degree has been awarded from an accredited college or university.
2. It is strongly recommended that the students have completed a minimum of 18 credits of undergraduate course work in anthropology, with a GPA of 3.0. An undergraduate major in anthropology is preferred.
3. Students must have at least a 2.5 overall undergraduate GPA.
4. Completed UAA graduate application form.
5. Official transcripts of college-level work from each institution attended.
6. Graduate Record Examination results (General Test Scores).
7. Three letters of recommendation from professors or others particularly qualified to attest to the applicant's qualifications for graduate study.
8. A letter of intent, including a brief statement of applicant's research and career goals and reasons for pursuing graduate study in anthropology at UAA.
9. Examples of papers or research proposals indicative of the applicant's potential for graduate study.
10. Applicants may be requested to complete a personal interview.

Acceptance is determined by the Anthropology Graduate Admissions Committee and is based on:
1. prospective student's overall credentials;
2. availability of appropriate faculty for student research interests.

Failure to meet any of the above criteria may result in conditional admission to the MA program. Conditional admission may be conferred on students if important deficiencies are identified in their undergraduate training. Such students are notified of those deficiencies, and required to complete them at UAA, normally within a period of one year, before admission to regular status in the program is conferred. In some cases, deficiencies can be made up at another academic institution. Conditional students cannot receive graduate teaching or research assistantships.

Prospective graduate students are strongly advised to contact all potential faculty for research/advisor arrangements at an early stage of their admission process.

ACADEMIC PROGRESS

To maintain continuous progress toward the degree, a student in the MA program is expected to complete each semester a minimum of 9 credits of course work applicable to the program, with grades of "A" or "B," for full-time students, or 3 credits per semester for part-time students. Failure to comply may result in the student being removed from the program. In addition, students must advance to candidacy within 5 years, unless on an approved leave of absence.

CANDIDACY REQUIREMENTS

See Master's Level Candidacy Requirements at the beginning of this chapter. A student may apply for advancement to candidacy by fulfilling the following criteria:

1. Submission of an Official Graduate Studies Plan, as described in the UA catalog.
2. Selection of a Graduate Studies Committee by the end of the first semester of study.
3. Complete at least 24 semester credits of non-thesis course work applicable to the MA program.
4. Take at least one course in statistics and one in computer-based analytical methods (may be taken as an undergraduate). In addition, a student may be required to demonstrate mastery of a foreign language, if deemed necessary by the graduate committee.
5. Pass a written comprehensive examination in anthropology. Normally, this exam is taken before the end of the second year of study, but in any case must be taken by the completion of 36 semester credits. This exam may be taken twice, but failure to pass the exam a second time will result in removal from
GRADUATION REQUIREMENTS

See the Graduate General University Requirements and University Requirements for Graduate Degrees Policies.

PROGRAM REQUIREMENTS

1. The following courses must be taken with a grade of "A" or "B."
2. At least 21 credits must be taken at the graduate (600) level.
3. No more than 6 credits of internship and/or independent study may be applied to the degree.
4. Courses outside the field of anthropology may be taken as electives if approved by the student's advisor.
5. Submit a written MAThesis to the graduate committee, conforming to specifications of the UAAConsortium Library.
7. Submit an Application for Graduation.
8. One of the following emphases must be chosen:

General Anthropology Emphasis

1. Complete the following:
   ANTH A602 Proseminar in Cultural Anthropology 3
   ANTH A605 Proseminar in Biological Anthropology 3
   ANTH A611 Proseminar in Archaeology 3
   ANTH A699 Thesis Research 1-6
   600 level elective by advisement 6
   400 or 600 level elective by advisement 9-14

2. A total of 30 credits is required for the degree.

Applied Anthropology Emphasis

1. Complete the following:
   ANTH A602 Proseminar in Cultural Anthropology 3
   ANTH A605 Proseminar in Biological Anthropology 3
   ANTH A611 Proseminar in Archaeology 3
   ANTH A699 Thesis Research 1-6
   400 or 600 level elective by advisement 6-11

2. Complete one of the following tracks:
   A. Applied Cultural Anthropology Track
      Complete the following:
      ANTH A615 Advanced Applied Anthropology 3
      ANTH A630 Advanced Research Methods in Cultural Anthropology 3
      ANTH A695 Anthropology Practicum 3
   B. Applied Biological Anthropology Track
      Complete 9 credits from the following:
      ANTH A645 Advanced Evolution of Humans and Disease (3)
      ANTH A655 Advanced Medical Anthropology (3)
      ANTH A657 Nutritional Anthropology (3)
      ANTH A665 Analytical Techniques in Biological Anthropology (3)
      ANTH A685 Advanced Human Osteology (3)
      ANTH A695 Anthropology Practicum (3)

C. Cultural Resource Management Track
   Complete the following:
   ANTH A675 Cultural Resource Management 3
   Complete 6 credits from the following:
   ANTH A631 Field Methods in Archaeology (1-8)*
   ANTH A680 Advanced Analytical Techniques in Archaeology (3)
   ANTH A681 Advanced Museum Studies in Anthropology (3)
   ANTH A695 Anthropology Practicum (3)

*No more than 3 credits may be applied to this emphasis.
3. Complete 400 or 600 level elective by advisement 6-11
4. A total of 30 credits is required for the degree.

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The graduate program in Biological Sciences offers a research program of study leading to the Master of Science degree. The MS degree requires a thesis that is the result of research performed either under the supervision of UAA faculty or under the supervision of a qualified and approved adjunct advisor from outside the University community.

**MASTER OF SCIENCE, BIOLOGICAL SCIENCES**

**ADMISSION REQUIREMENTS**

See the beginning of this chapter for graduate admission requirements and deadlines.

Students seeking admission into the Biological Sciences MS degree program should meet the following requirements (1-3) and must submit the following documents (4-8):

1. Although graduating college or university seniors are invited to apply, no student may be formally admitted to graduate study until the baccalaureate degree has been awarded from an accredited college or university.

2. Students should also have had courses in physics, organic chemistry and biochemistry during their undergraduate education to be considered for admission into the graduate program.

3. Student applicants should have at least a 2.5 overall GPA with no grade below C in any college-level science course.

4. Completed UAA graduate application form.

5. Official transcripts of all college-level work.

6. Graduate Record Examination scores (General GRE scores and Biology, Biochemistry or Chemistry Advanced GRE scores).

7. Three letters of recommendation.

8. A brief statement of applicant’s research and career goals.

Acceptance is determined by the Biological Sciences Graduate Committee (BSGC) and is based on:

1. prospective student’s overall credentials;
2. availability of appropriate faculty for student research interests.

Prospective graduate students are strongly advised to contact all potential faculty for research/advisor arrangements at an early stage of their admission process.

**GRADUATION REQUIREMENTS**

See general university requirements for master’s degree.

**PROGRAM REQUIREMENTS**

1. Students working toward an MS degree in Biological Sciences must fulfill the following minimum credit requirements:

   - 600-level Science Credits: No less than 9
   - BIOLA692 Graduate Seminar (1) 2
   - BIOLA698/A699 Research and Thesis (1-6) No more than 12

   A minimum of 30 credits is required, of which at least 21 credits must be at the 600 level. Upper division (400-level) credits may be applied to the degree only with approval of the Graduate Study Committee Chair (Research Advisor).

2. MS students awarded a Teaching Assistant (TA) stipend are required to teach two laboratory sections per semester (Fall and Spring) per year of stipend support.

3. Each student must select a Graduate Study Committee (GSC) consisting of three UAA faculty, to be chaired by the student’s Research Advisor. If the Research Advisor is an Affiliate Faculty member, a permanent faculty Co-Chair must also serve on the student’s GSC.

4. By the end of the first semester of graduate work, each graduate student must prepare a Graduate Study Plan for approval by the student’s GSC. The approved Study Plan and any subsequent approved revisions should be submitted to the chair of the BSGC, a copy filed in the Department Office, and the original sent to Records. During the second semester, a written research plan is to be submitted for approval by the student’s GSC. Students are expected to give an oral presentation of their research plan within the second semester of graduate work.

5. All graduate students are expected to present an original research seminar to the Biological Sciences faculty and graduate student body after significant thesis work has been accomplished.

6. Each student must formally apply for Advancement to Candidacy no later than the third week of the semester in which the student will complete 18 credits of graduate study at UAA. Students may not formally apply if any deficiencies exist as defined by general university requirements and this MS program.

7. After the student completes their research, a research thesis must be written by the student and submitted at least two months prior to graduation for review and approval by the GSC. Thesis format shall be determined by the student and advisor.

8. Students will be expected to schedule a final Thesis Defense Seminar of their research, which will be followed by a private meeting with their GSC to finalize the defense.
Pursuit of a doctoral degree is possible in selected areas of biological sciences through a cooperative program with the University of Alaska Fairbanks. For more information, please contact the UAADepartment of Biological Sciences or the University of Alaska Fairbanks, Office of Graduate Studies.

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The MS degree in Clinical Psychology is designed to be responsive to the needs of a variety of Alaska mental health service settings and to meet prerequisites for licensing requirements at the master’s level in psychology for the state of Alaska. The degree is structured to allow students to focus on one of four specialty areas: clinical services, public services, research (doctoral program preparation), and addictive behaviors.

1. Research track: training in psychotherapy, research and program evaluation with the goal of leading students toward the pursuit of a doctoral degree in psychology.
2. Clinical track: preparation for a master’s level career in psychotherapy, appreciation of research and critical evaluation of research conducted by others.
3. Public Service track: preparation for a master’s level career in community public service provision, appreciation of research and critical evaluation of research conducted by others.
4. Addictive Behaviors Track: preparation for a master’s level career in psychotherapy with an emphasis on treating addictive behaviors, appreciation of research and critical evaluation of research conducted by others.

All program tracks have three general components. First, a program “core” provides competencies essential to the professional mental health service provider and scientist/practitioner. Second, the basics are extended to different application tracks with an emphasis on supervised practice. Third, the student develops a research competency by completing a thesis.

MASTER OF SCIENCE, CLINICAL PSYCHOLOGY

ADMISSION REQUIREMENTS
1. Deadline: March 1 for fall admission. This is the only admission date each year.
2. Compliance with General University (graduate) Requirements and admission to graduate study as given in the University of Alaska Anchorage catalog is required. A major in psychology is preferred.
3. Undergraduate training in statistics, experimental design, abnormal psychology, and tests and measurements (at UAA specific qualifying courses are PSYA260 or AS A252, PSYA261, PSYA345, and PSYA473, respectively) is necessary. Students may be admitted to the program at UAA with these course experiences. However, undergraduate course work in these areas constitutes departmental requirements for full admission. As such, relevant undergraduate courses must be taken to meet the prerequisite structure of specific graduate course and must be completed prior to starting practicum (PSYA665B).
4. Submission of scores on the Graduate Record Examination (GRE) for both the general aptitude test and the Psychology Subject Test is mandatory. Applications without these scores are generally not considered. Successful applicants typically have GRE general aptitude scores on the quantitative and verbal subtests that sum to 1000 or more and scores on the Psychology Subject Test that exceed the 50th percentile. The Psychology Subject Test is waived for graduates who obtained a baccalaureate degree in Psychology within the last seven years with a psychology GPA of 3.00 or above.

5. Submission of a letter of intent describing the applicant’s interest and purpose in studying psychology, and the reasons why an MS degree in Clinical Psychology at UAA is sought at this point in the applicant’s professional development, is required of a complete application.

6. A minimum of two (preferably three) professional references must be submitted with all applications.

7. Documentation of academic, research, and practical experiences other than course work, vocational and professional experiences, special projects and activities, and recognitions or honors must be provided. The format for this documentation is flexible, but a vita is preferred.

8. Demonstration of professionalism, understanding of APA ethical guidelines, and appropriate professional ethical behavior is expected. Applicants should provide evidence of professional goals and aspirations that reflect understanding of the profession of psychology as it is governed by licensure and accreditation laws and as it relates to the UAA program in particular. Applicants should ask their professional referees to comment on these issues. Applicants may be requested to complete an interview with faculty to provide additional evidence of these skills and features.

Department approval for admission to graduate study is contingent upon the applicant’s qualifications, interests, and available space.

Fully admitted status is prerequisite for:
- registering for PSYA665 Psychotherapy Practicum
- registering for PSYA670 Psychotherapy Internship
- preference in T.A. and R.A. appointments
- preference in registration for psychology classes

**CANDIDACY REQUIREMENTS**

See the beginning of this chapter for master’s level candidacy requirements. Students are eligible to apply for advancement to candidacy when they have completed the following courses:

- PSYA611 Ethics and Professional Practice
- PSYA623 Psychotherapy Skills
- PSYA633 Psychological Assessment
- PSYA699A Thesis: Research (1-6)
- Selection of one course from the Specialty Track requirements listed.

Candidacy status is a prerequisite to the following experiences:

- PSYA670 Psychotherapy Internship
- Participation in Comprehensive Exams
- Receipt of academic credit for Thesis (PSYA699A, B, or C)

**GRADUATION REQUIREMENTS**

See the beginning of this chapter for master’s level graduation requirements. A minimum grade of “B” or better is required of all course work applied to the degree. Strict compliance with APA Ethical Guidelines is required throughout participation in the degree program. Violations can result in immediate dismissal from the program.

To ensure students have the statistical skills to complete an empirical research project for their thesis (if they so choose) or to do well on the national licensing exam (if they wish to obtain a master’s level license in Alaska), students must demonstrate minimal statistical proficiency prior to graduating with a M.S. degree. Proficiency can be demonstrated in one of three ways. First, students can obtain a score of 500 or above on the Quantitative portion of the Graduate Record Examination (GRE). Second, students can pass a proficiency exam given by the psychology department the week before classes start in the fall. Third, students can successfully complete our graduate statistics class, PSYA685 Quantitative Methods in Psychology. Students who take the proficiency exam but do not pass will be required to take PSYA685.

**PROGRAM REQUIREMENTS**

1. Required core courses for all four tracks (28 credits):
   - PSYA611 Ethics and Professional Practice 3
   - PSYA622 Psychopathology 3
   - PSYA623 Psychotherapy Skills 3
   - PSYA633 Psychological Assessment 3
   - PSYA639 Advanced Research Methods 3
   - PSYA654 Cultural Issues in Psychotherapy 3
   - PSYA665A Psychotherapy Practicum: 1
   - Psychological Assessment
   - PSYA665B Psychotherapy Practicum: 3
   - Psychological Services Center
   - PSYA670 Psychotherapy Internship (3-6) 6

**Specialty Track Courses**

**A. Research Track**

Required (22 credits):

- PSYA698 Individual Research (1-4) 3
- PSYA699A Thesis: Research (1-6) 6
- PSYA685 Quantitative Methods in Psychology 3
- Select two of the following three: 6
  - PSYA624 Group Therapy (3)
  - PSYA626 Family Therapy (3)
  - PSYA645 Advanced Psychotherapy Skills (3)
- Electives 4

**B. Clinical Track**

Required (22 credits):

- PSYA624 Group Therapy 3
- PSYA626 Family Therapy 3
- PSYA645 Advanced Psychotherapy Skills 3
- PSYA689 Advanced Psychological Assessment 3
- PSYA699C Thesis: Creative Component (1-3) 3
- Select one of the following three: 3
  - PSYA631 Cognitive Behavior Therapy (3)
  - PSYA635 Advanced Psychodynamic Theory and Therapy (3)
  - PSYA638 Child-Clinical Psychology (3)
- Electives* 4

*Note: PSYA612 is recommended for licensure.
### C. Public Service Track

**Required (22 credits):**
- PSYA624 Group Therapy 3
- PSYA631 Cognitive Behavior Therapy 3
- PSYA637 Organizational Environments 3
- PSYA699B Thesis: Public Service (1-3) 3
- Select two of the following four: 6
  - PSYA626 Family Therapy (3)
  - PSYA638 Child-Clinical Psychology (3)
  - PSYA641 Applications of Community Psychology (3)
  - PSYA645 Advanced Psychotherapy Skills (3)
- Electives 4

### D. Addictive Behaviors Track

**Required (22 credits):**
- PSYA643 AIDS and Substance Abuse Counseling 3
- PSYA680 Advanced Issues in Addiction Studies (1-3) 3
- PSYA682 Clinical Interventions for Addictive Behaviors 3
- PSYA688 Assessment and Treatment Planning for Addictive Behaviors 3
- PSYA699C Thesis Creative Component (1-3) 3
- Select one of the following three: 3
  - PSYA626 Family Therapy (3)
  - PSYA624 Group Therapy (3)
  - PSYA641 Applications of Community Psychology (3)
- Electives 4

### 2. Electives:
Any 600-level course not required by the student’s chosen track may be chosen as an elective. Any 400-level course offered by the department may serve as an elective with a maximum of 6 elective credits at the 400-level as approved by the student’s advisor. 400-level courses may not be applied to both a baccalaureate and a masters degree.

### 3. Thesis and Creative Component:
Only students in the research track have to choose a traditional empirical thesis project. Students in the public service track will conduct a thesis of a slightly lesser work involvement than the research track thesis. Students in the clinical track and the addictive behaviors track will complete a Creative Component thesis, which is a professional project of their choice (approved by the thesis committee) that has relevance to their anticipated career. Under all circumstances, the student’s work has to be defended in front of a committee chaired by the student’s advisor.

### 4. A total of 50 credits is required for the degree.
Research Track

Fall Conditional Entry

Prerequisite
Prerequisite
Prerequisite
PSYA623  Psychotherapy Skills 3

Spring

PSYA633  Psychological Assessment 3
PSYA654  Cultural Issues in Psychotherapy 3
PSYA639  Advanced Research Methods 3

Fall

PSYA698  Individual Research 1-4
PSYA611  Ethics and Professional Practice 3
PSYA622  Psychopathology 3
PSYA685/685L Quantitative Methods in Psychology/Lab 4
Elective
Petition for Full Admission

Spring

PSYA645  Advanced Psychotherapy Skills 3
PSYA665A  Psychotherapy Practicum: Psychological Assessment 1
PSYA665B  Psychotherapy Practicum: Psychological Services Center 3
PSYA699A  Thesis: Research 3
Advance to Candidacy

Summer

PSYA699A  Thesis: Research 3
PSYA670  Psychotherapy Internship 3

Fall

PSYA626  Family Therapy 3
PSYA670  Psychotherapy Internship 3
Elective

COMPUTER SCIENCE

saturn.math.uaa.alaska.edu
College of Arts & Sciences Building (CAS), Room 154, (907) 786-1742/4824

MASTER OF SCIENCE, COMPUTER SCIENCE

The UAA Department of Mathematical Sciences offers the opportunity to pursue a Master's Degree in computer science while residing in the Anchorage area. The degree is available through a cooperative program with the University of Alaska, Fairbanks and the degree is awarded by UAF. The program is designed to accommodate computer science professionals working in the Anchorage area; courses are offered late afternoon and evening. For more information, contact the Department of Mathematical Sciences at UAA or visit our web site at saturn.math.uaa.alaska.edu/mathsci.

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Todd Risley, Prov/CHD/IAP/STWD Coord,
Rosellen Rosich, Associate Professor, AFRMR@uaa.alaska.edu
Karen Ward, Associate Professor, AFKMW@uaa.alaska.edu
CREATIVE WRITING AND LITERARY ARTS

The Department of Creative Writing and Literary Arts offers a 45-credit Master of Fine Arts degree in Creative Writing and Literary Arts. The MFA is a professional degree which prepares students for various careers including those involving professional writing, teaching and editing. The MFA degree in Creative Writing and Literary Arts is generally a three-year degree, although some students may complete the requirements in a longer or shorter amount of time.

In their program of study in the Department of Creative Writing and Literary Arts, students can take courses in four areas: creative nonfiction, fiction, poetry, and drama for stage and screen. The emphasis of courses in this department is balanced between the study and practice of craft and the study of form, and theory as it relates to style and content. Workshop courses under the CWLAr prefix are “working” courses where students produce original works of literature and engage in productive critique of each other’s writing.

MASTER OF FINE ARTS,
CREATIVE WRITING AND LITERARY ARTS

ADMISSION REQUIREMENTS

See the beginning of this chapter for graduate admission requirements and deadlines.

In addition, at the time of application, students must submit the following to the Department of Creative Writing and Literary Arts:

1. A manuscript sample (approximately 20 pages of fiction or creative nonfiction or 10 poems).
2. Two letters of recommendation that address academic preparation and creative writing ability.
3. A letter of application which addresses the student’s range of writing experience and the reasons for applying to the Master of Fine Arts program.

All materials must be received by the Department of Creative Writing and Literary Arts by March 1 to be considered for assistantships, and by April 1 for general admission into the program. Fall admission only.

Admission will depend upon the evaluation of the entire application packet, with emphasis placed on the manuscript sample.

GRADUATION REQUIREMENTS

See master’s level graduation requirements at the beginning of this chapter.

PROGRAM REQUIREMENTS

1. Complete 15-21 credits from the following. Note that at least two areas must be studied:
   - CWLAA652 Graduate Writers’ Workshop: Poetry (3)
   - CWLAA662 Graduate Writers’ Workshop: Fiction (3)
   - CWLAA672 Graduate Writers’ Workshop: Prose Nonfiction (3)
   - CWLAA682 Graduate Writers’ Workshop: Drama for Stage and Screen (3)
2. Complete 6-12 credits of CWLAA690 Form and Theory. This is an umbrella course and may be repeated with changes in subtitle.
3. Complete 3-15 credits of approved electives in any department or discipline that complements the thesis project.
5. Successful defense of the thesis.
6. A total of 45 credits is required for the degree.

FACULTY

Ronald Spatz, Chair/Professor, AFRMS1@uaa.alaska.edu
Nancy Lord, Visiting Associate Professor
Linda McCarriston, Professor, AFLJM@uaa.alaska.edu
MASTER OF ARTS, ENGLISH

ADMISSION REQUIREMENTS

See the beginning of this chapter for graduate admission requirements and deadlines.

At the time of application, students must submit the following documents to the Master of Arts Program, Department of English:
1. A three-page application essay which addresses the student’s background in English, reasons for applying to Master of Arts program, and learning goals.
2. A recent sample (from within the past five years) of the applicant’s academic or professional writing. NOTE: If no samples are available, the applicant should address this in the application essay.
3. Documented GPA in all undergraduate English courses.

Admission will depend upon the evaluation of the entire application packet. While the department does not have a rigid GPA requirement, successful applicants ordinarily have a grade point average of 3.5 or better in undergraduate English courses. An applicant who is weak in one area may, at the discretion of the department, be required to take some additional course work at the undergraduate level.

Applicants to the graduate program who are also interested in a teaching assistantship should contact the Department of English for the TA deadline.

CANDIDACY REQUIREMENTS

See the beginning of this chapter for master’s level candidacy requirements. No more than two-thirds of the credits applied to the degree may have been completed prior to the submission of a candidacy application. In addition, the student must complete two departmental requirements before advancing to candidacy:
1. Submit a satisfactory official score for the verbal section of the General GRE. MA students ordinarily have a score of 500 or better on the Verbal GRE. This is a general guideline, kept flexible to accommodate promising candidates whose total record indicates aptitude that may not be easily measured by a standardized test.
2. Pass the department’s Graduate Qualifying Examination. This exam, taken when the student has completed no fewer than 15 and no more than 24 credits toward the degree, demonstrates the student’s disciplinary writing skill and preparation to write a successful thesis.

GRADUATION REQUIREMENTS

See the beginning of this chapter for master’s level graduation requirements.

PROGRAM REQUIREMENTS

LITERATURE EMPHASIS

1. Complete the following before advancing to candidacy (6 credits):
   - ENGLA601 Introduction to Graduate Studies in English 3
   - ENGLA602 Contemporary Critical Theory 3

2. Complete 9 credits in period studies from the following:
   - ENGLA607 Studies in American Literature (3)
   - ENGLA615 Studies in Medieval Literature (3)
   - ENGLA620 Studies in Renaissance Literature (3)
   - ENGLA625 Studies in Neoclassical Literature (3)
   - ENGLA630 Studies in the Literature of Romanticism (3)
   - ENGLA640 Studies in the Victorian Period (3)
   - ENGLA642 Studies in the Modernist Period (3)
   - ENGLA643 Studies in Contemporary Literature (3)
   - Total: 9 credits

3. Complete 6 credits in genre studies from the following:
   - ENGLA636 Studies in Modern Criticism (3)
   - ENGLA651 Studies in Poetry (3)
   - ENGLA661 Studies in Fiction (3)
   - ENGLA671 Study in Non-Fiction Prose (3)
   - ENGLA681 Studies in Drama (3)
   - Total: 6 credits

4. Complete 3 credits in specialized studies from the following:
   - ENGLA604 Studies in Women’s Literature (3)
   - ENGLA606 Studies in the Development of the English Language (3)
   - ENGLA637 Studies in Style and Stylistics (3)
   - ENGLA676 Studies in Texts and Cultures (3)
   - Total: 3 credits


6. English electives (graduate or 400-level undergraduate) 6

7. A total of 36 credits is required for the degree.

RECOMMENDED COURSE SEQUENCE

MA in English (Literature Track)

First Year

Fall (9 credits)
   - ENGLA601 Introduction to Graduate Studies in English 3
   - ENGLA687 Period Course or ENGLA651 Studies in Poetry (required for Teaching Assistants) 3
   - ENGLA661 Studies in Fiction (3)

Spring (9 credits)
   - ENGLA602 Contemporary Critical Theory 3
   - ENGLA604 Studies in Women’s Literature (3)
   - ENGLA606 Studies in the Development of the English Language (3)
   - ENGLA637 Studies in Style and Stylistics (3)
   - ENGLA676 Studies in Texts and Cultures (3)
   - Total: 9 credits

Second Year

Fall Semester (9 credits)
   - ENGLA651 Studies in Poetry 3
   - ENGLA699 Thesis or ENGLA698 Individual Research (often ENGLA698 Individual Research) 3
   - The student should take the English Qualifying Exam this semester.

Spring Semester (9 credits)
   - ENGLA687 Period Course or ENGLA698 Individual Research (often ENGLA698 Individual Research) 3
   - ENGLA699 Thesis 3
   - ENGLA699 Thesis 3
   - Total: 9 credits

The student should take the English Qualifying Exam this semester.
RHETORIC EMPHASIS

1. Complete the following before advancing to candidacy (6 credits):
   - ENGLA601 Introduction to Graduate Studies in English 3
   - ENGLA602 Contemporary Critical Theory 3

2. Complete 12 credits in Composition and Rhetoric (12 credits):
   - ENGLA637 Studies in Style and Stylistics 3
   - ENGLA680 Studies in the History of Rhetoric 3
   - ENGLA685 Studies in Rhetorical Strategy 3
   - ENGLA687 Composition Theory and Practice 3

3. Complete 9 credits in specialized studies from the following (9 credits):
   - ENGLA604 Studies in Women’s Literature (3)
   - ENGLA606 Studies in the Development of the English Language (3)
   - ENGLA636 Studies in Modern Criticism (3)
   - ENGLA671 Studies in Non-Fiction Prose (3)
   - ENGLA676 Studies in Texts and Cultures (3)

4. Complete at least 6 credits of ENGLA699 Thesis. Completion of the MA thesis in English includes a thesis defense. 6

5. Complete one English elective at the graduate level 3

6. A total of 36 credits is required for the degree.

Note: Most graduate courses are offered on a two-year rotation. Exceptions are ENGLA601 and ENGLA687 (offered every fall semester) and ENGLA602 (offered every spring). A schedule of the planned rotation of graduate courses is available from the English office.

FACULTY

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COLLEGE OF BUSINESS AND
PUBLIC POLICY

BUSINESS ADMINISTRATION

www.cbpp.alaska.edu/DEGREES/ba.html
Business Education Building (BEB), Room 309, (907) 786-4100

The College of Business and Public Policy offers the Master of Business Administration (MBA) degree in general management. The MBA program is accredited by the International Association for Management Education (AACSB).

PROGRAM POLICIES AND ADMINISTRATION

Students must maintain a minimum 3.00 GPA on all course work in the MBA program, including foundation courses. A grade of “C” in a graduate course is minimally acceptable if it is offset with an “A” grade in another course. Students with a GPA below 3.00 will be placed on probation, and may be dropped from the program if the GPA is not brought up to 3.00 within a reasonable time period. Students are also expected to make reasonable progress toward completion of the degree, and may be placed on probation if they do not complete at least one course applicable to the MBA within any 12 month period. All of the advanced MBA course requirements (core plus electives) must be completed within seven (7) calendar years.

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 preparation 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.

The MBA program is the responsibility of the College’s graduate faculty, which acts as a policy-setting body, and as an appeals board. The complete MBA program policies, requirements, and procedures may be obtained from the College’s MBA office. Students are expected to be familiar with and adhere to both the MBA program requirements and procedures, and the general UAA requirements for graduate degrees.

Full program information, including application forms and procedures, may be obtained by contacting the:

MBA Office
College of Business and Public Policy
University of Alaska Anchorage
3211 Providence Drive
Anchorage, AK 99508
U.S.A.
Telephone: (907) 786-4129
Facsimile: (907) 786-4119

MASTER OF BUSINESS ADMINISTRATION,
GENERAL MANAGEMENT

The MBA in general management is designed to provide students with the perspectives and skills which will prepare them for increasingly significant managerial leadership roles in their organizations.

The focus of the program is on management practice, but this focus is based on a recognition that sound practice requires a thorough understanding of underlying management principles and techniques. The MBA graduate should be thoroughly grounded in state-of-the-art management theory and practice, aware of the complex global environment in which modern organizations operate, adaptive to change, articulate, and ethical in dealing with others.

The program serves both full and part-time students, and classes are generally scheduled for evenings and Saturdays. While most students are from the greater Anchorage area, the program also attracts students from the rest of the United States and from foreign countries—particularly from those on the Pacific Rim. The College of Business and Public Policy has entered into an agreement with Kyung Hee University in Seoul, Korea under which students may satisfy part of their MBA course requirements at either the University of Alaska Anchorage or at Kyung Hee University.

Students may enter the program in either the fall or spring semester. A limited number of courses are also offered during the summer. Current application deadlines, as well as other detailed program information, may be obtained by contacting the College of Business and Public Policy MBA office.

ADMISSION REQUIREMENTS

Applicants must meet both the graduate admission requirements and deadlines and the College of Business and Public Policy requirements outlined below.

Admission to the MBA program is restricted to students holding a baccalaureate degree from an accredited university, or foreign equivalent. In addition, it is highly desirable for incoming MBAs to have three years of full-time work experience. The majority of students meeting these conditions will be admitted, up to the limits of program capacity, based on their potential for success in graduate business studies. In general, two formulas using undergraduate performance as measured by the grade point average (GPA) on a 4.00 scale and the score on the Graduate Management Admission Test (GMAT) will be used to assess an applicant’s potential for success in the MBA program:

1. Undergraduate GPA x 200 + GMAT ≥ 1100
2. Upper-division GPA x 200 + GMAT ≥ 1050

These formulas are minimums, and may not guarantee admission in cases where either the GPA or the GMAT scores are unusually low. Additional indicators for predicting success in individual cases may be provided through documented performance in extracurricular activities, evidence of creativity and leadership, and a record of accomplishment in business or other professional activity.

Applicants whose native language is not English are required to score at least 550 on the TOEFL exam or otherwise demonstrate competency in English.
Students may apply to enter the program at the beginning of either the fall or spring semester. There currently is no specific application deadline, but students should apply before the start of their first semester. In some cases students may be admitted conditionally while their paperwork is completed. Students in conditional admission status are restricted in the number of courses that they can take before being fully admitted.

**GENERAL MANAGEMENT PROGRAM STRUCTURE**

The requirements consist of two parts, foundation courses and advanced courses, with program length varying from 36 to 54 credits, depending upon previous business studies.

Students without undergraduate business or accounting degrees will take up to seven foundation courses (18 credits) designed to provide a basic foundation for further graduate work. These foundation courses are:

- ACCT A601 Accounting Foundations for Executives 3
- BA A601 Business Statistics and Data Analysis 2
- BA A603 Fundamentals of Finance 3
- BA A604 Marketing Management 3
- BA A606 Fundamentals of Production/Operations Management 2
- CIOS A605 Information Systems for Managers 2
- ECON A602 Introduction to Economics for Managers 3

In some cases students may have fulfilled the core foundation requirements in part through undergraduate courses, or some students holding undergraduate business or accounting degrees may not have covered all of the foundation material in their degree program, or some of their foundation work may be dated in comparison to modern business practice. Thus foundation requirements will be evaluated on an individual student basis to insure each student is properly prepared for the more advanced MBA courses. Foundation courses may be waived or added to an individual student's program based on previous preparation.

In addition, entering students are expected to have basic mathematical, computer, and communication skills. Students deficient in basic skills will be required to improve them through independent study, non-credit courses, undergraduate course work, and/or seminars or workshops.

The main body of the MBA which is required of all students in General Management consists of nine core courses and three electives for a total of 36 credits of advanced course work:

- ACCT A650 Seminar in Executive Uses of Accounting 3
- BA A631 Business Environment Analysis 3
- BA A632 Organizational Behavior and Human Resource Management 3
- BA A633 Problem Formulation and Decision Analysis 3
- BA A634 Creating the Successful Organization 3
- BA A635 Current Marketing Issues Seminar 3
- BA A636 Financial Decision Making 3
- BA A655 Strategic Management Seminar 3
- BA A656 Management Project 3

Three electives, all at the graduate (600) level 9

In certain cases, where warranted by previous education or experience, an MBA core course may be waived and an elective substituted. BAA656, Management Project, is required for every student, and the oral presentation of the project to the student’s committee serves as the final comprehensive examination in the MBA program.

It is possible for full-time students to complete the 36 credits of the General Management Concentration in one calendar year, although most students will take longer. Core foundation requirements normally add a minimum of two semesters to the program completion time for full-time students.

**.faculty**

- Barbara Reider, Associate Professor/Dir., AFBPR@uaa.alaska.edu
- Irfan Ahmed, Assistant Professor, AFIA@uaa.alaska.edu
- Ken Boze, Professor, AFKMB@uaa.alaska.edu
- Steven Campbell, Associate Professor, AFSCV@uaa.alaska.edu
- Askar Choudhury, Associate Professor, AFAHCM@uaa.alaska.edu
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- Paul Jordan, Professor, AFPCJ@uaa.alaska.edu
- Donald Marx, Professor, AFDLM@uaa.alaska.edu
- Gary Selk, Professor, AFGLS1@uaa.alaska.edu
- Suresh Srivastava, Professor, AFSCS@uaa.alaska.edu
The Master of Public Administration (MPA) degree provides students with knowledge and skills needed for professional careers in public service. MPA students learn new techniques and add to their expertise in organizational and program management, policy analysis, and related areas with emphasis on policy and administrative issues in the North. Students specialize in one of the following emphasis areas: Public Management, Policy Analysis, Health Administration, or Criminal Justice.

The Public Management emphasis is designed for those working for or planning to work for executive agencies of local, state, and federal government; for private, non-profit organizations; and in government relations units of private corporations. It provides basic tools of public management, understanding of the structure and processes of public organizations, and the history and context of the field of public administration.

The Policy Analysis emphasis is intended to provide the professional staffs of executive and legislative departments of local, state, and federal governments with the capability to analyze the effects of a broad range of actual or hypothetical government policies. It emphasizes the application of economic analysis and other quantitative and qualitative methods to Alaska and national policy issues.

The Health Administration emphasis prepares students to function as health administrators in state, local, or federal agencies, non-profit organizations, and private companies that do health-related work. Students develop knowledge and skills necessary for effective public management in the health care area: planning, decision-making, and managing people, money and programs.

The Criminal Justice Emphasis will provide graduates with the theoretical basis for management careers in the field of criminal justice. Students will develop knowledge and skills necessary for effective public management: planning and decision making, managing people, money and programs. These skills will be applicable in a wide spectrum of employment areas in law enforcement and the criminal justice system; and will also prepare graduates seeking to earn a terminal degree in justice administration.

Upon approval of the student’s advisor and dean, and by completing additional course work and meeting other degree requirements, an MPA student may receive both the MPA and the Master of Business Administration (MBA) degrees.

### Academic Progress

To maintain satisfactory progress toward the degree, a student in the MPA program is expected to complete a minimum of six (6) semester credits each calendar year, commencing with the first term of enrollment. The six (6) semester credits may consist of either undergraduate prerequisite courses or graduate program courses. Failure to comply with the six (6) credit minimum each calendar year may result in the student being dropped from the program.

### Graduation Requirements

See the beginning of this chapter for master’s level graduation requirements.

### Program Requirements

1. Complete the MPA core courses (18 credits):
   - **ECON A625** Economics and Public Policy 3
   - **PADM A601** Public Administration in the Contemporary Society 3
   - **PADM A602** Seminar in Public Management 3
   - **PADM A604** Research Methods in Administration 3
   - **PADM A606** The Policymaking Process 3
   - **PADM A628** Administration of Financial Resources 3

2. Complete one of the following emphasis areas:
   - **A. Public Management Emphasis (15 credits):**
     - **PADM A603** Management Analysis 3
     - **PADM A610** Organizational Theory and Behavior 3
     - **PADM A624** Human Resources Administration 3
     - Plus two 600-level electives 6
   - **B. Policy Analysis Emphasis (15 credits):**
     - **ECON A628** Applied Economics 3
     - **PADM A632** Policy Analysis 3
     - **PADM A635** Program Evaluation 3
     - Plus two 600-level electives 6
C. Health Administration Emphasis (15 credits):
   - PADM A624  Human Resources Administration 3
   - Plus one 600-level elective 3
   - Choose 3 courses from the following: 9
     - NS A626  Principles of Epidemiology (3)
     - NS A658  Public Health Policy (3)
     - NS A681  Analysis of Health Services (3)
     - NS A682  Administrative Services (3)

D. Criminal Justice Emphasis (15 credits):
   - JUST A625  Seminar in Criminal Violation 3
   - JUST A630  Justice Administration Theory and Practice 3
   - JUST A670  Administrative Law 3
   - Choose one of the following:
     - JUST A640  Corrections Theory and Research 3
     - JUST A650  Policing Theory and Research 3

3. Candidates for the MPA who do not have public administration work experience must complete 1 additional course (3 credits):
   - PADM A620  Internship in Public Administration/Policy 3

4. Take the core comprehensive exam after completing the core courses. This exam must be passed before the student may enroll in the capstone course.

5. Complete the capstone project course (3 credits):
   - PADM A659  Administrative Policy Seminar 3

6. A total of 36-39 credits is required for the degree.

FACULTY

Steve Aufrecht, Professor/Chair, AFSEA@uaa.alaska.edu
Sharman Haley, Assistant Professor, AFSH@uaa.alaska.edu
Garth Jones, Professor Emeritus
Robert Langworthy, Affiliated Faculty, AFRHL@uaa.alaska.edu
Greg Protasel, Associate Professor, AFGJP@uaa.alaska.edu
Brian Saylor, Affiliated Faculty, ANBLS@uaa.alaska.edu
Bradford Tuck, Affiliated Faculty, AFBHT@uaa.alaska.edu
The School of Education offers both master’s programs and certification programs at the graduate level. Students admitted to master’s programs work with a three-member committee comprised of full-time faculty from the major and related areas. The committee develops an individual graduate program for each student based upon transfer credits, program requirements and elective courses. The program may or may not include certification requirements. The approved program becomes the contract between the student and the University and if it includes a degree or endorsement program, it must be earned within a consecutive seven-year period prior to graduation.

Practica, internships, student teaching and other field placements are made only in cooperation with participating school districts. The school districts that work in cooperation with the School of Education reserve the right to request additional information and/or preparation from university students, per the district’s established policies/practices. Cooperating districts also determine the number of available spaces and placements for university students. Placement may become competitive if the number of applicants exceeds the number of spaces. Districts also reserve the right to refuse and/or terminate students who do not meet a minimum standard of performance. Thus, while the University will make every effort to find appropriate field placements for students, admittance to a degree/certificate/endorsement program does not guarantee acceptance by cooperating school districts.

The Master of Arts in Teaching program course requirements are the same for all students. However, within the curriculum of the M.Ed. program are several options, each with its own set of specific requirements. Each is designed to provide the student with advanced preparation in professional education. Some also lead to certification programs in Master Teacher (Reading Option, Middle School Specialty Option); Counseling and Guidance; Educational Leadership (Principal and Superintendent); Special Education (General Special Education and Early Childhood Special Education); and the Master of Arts in Teaching. Students admitted only to a graduate certification program are assigned to a faculty member who serves as an academic advisor. Students must meet all the course requirements as approved by the State of Alaska Department of Education.

Prior to permitting the student to enter the final stage of preparation, which is characterized by participation in a practicum or internship, a faculty committee will evaluate the student’s performance in the program. Admission into this final phase of professional preparation is a faculty decision and is separate from entry into the graduate program. Difficulties including minimal academic performance, non-professional behavior, minimal field reports, or other factors, may result in denial of entry to practicum or internship.

Performance in practicum and internship is closely monitored, with stated minimum competencies and the development of individual objectives. Since this is the practice and application phase of professional development, it is assumed that students will demonstrate maturity in professional actions, attitude and performance. The State of Alaska issues certificates/endorsements as a result of successful program completion as attested by the department program chair and the dean.

The School of Education recommends students for endorsement and/or certification to the State of Alaska Department of Education upon successful completion of graduate programs in Master Teacher (Reading Option, Middle School Specialty Option); Counseling and Guidance; Educational Leadership (Principal and Superintendent); Special Education (General Special Education and Early Childhood Special Education); and the Master of Arts in Teaching. Students admitted only to a graduate certification program are assigned to a faculty member who serves as an academic advisor. Students must meet all the course requirements as approved by the State of Alaska Department of Education.

Prior to permitting the student to enter the final stage of preparation, which is characterized by participation in a practicum or internship, a faculty committee will evaluate the student’s performance in the program. Admission into this final phase of professional preparation is a faculty decision and is separate from entry into the graduate program. Difficulties including minimal academic performance, non-professional behavior, minimal field reports, or other factors, may result in denial of entry to practicum or internship.

Performance in practicum and internship is closely monitored, with stated minimum competencies and the development of individual objectives. Since this is the practice and application phase of professional development, it is assumed that students will demonstrate maturity in professional actions, attitude and performance. The State of Alaska issues certificates/endorsements as a result of successful program completion as attested by the department program chair and the dean.

Contact the School of Education for specific certification and endorsement requirements. Only courses with a grade of “C” or better may be applied to meet certification or endorsement requirements. The Special Education (General) Endorsement Program requires a grade of “B” or better to meet endorsement requirements.
NONTRANScribed INTERDISCIPLINARY CERTIFICATE OF COMPLETION IN SUBSTANCE ABUSE DISORDERS

This program, coordinated by the Center for Alcohol and Addiction Studies, is intended for students with baccalaureate degrees who wish to further their education with respect to substance abuse-related disorders. Students in graduate programs in human helping disciplines, such as social work, psychology, nursing, education, human services, as well as those in other health related fields, can further their understanding of substance abuse-related disorders through completion of this certificate program. The course of study is designed to help students meet the educational requirements for Substance Abuse Counselor Certification established for substance abuse counselors in Alaska. Additional hours of work experience in the chemical dependency field, however, are required to meet state certification standards.

REQUIREMENTS

A minimum of 18 credits is required for this certificate, to be taken as follows:

1. Complete the following:
   - HS A484 Drug Actions of Psychoactive Drugs (3)

2. Complete one of the following:
   - PSYA611 Ethics and Professional Issues (3)
   - SWK A653 Professional Issues for Social Workers (3)

3. Complete one of the following courses:
   - COUN A614 Counseling Diverse Populations (3)
   - NS A623 Transcultural Nursing in a Multicultural World (3)
   - PSYA654 Cultural Issues in Psychotherapy (3)
   - SWK A643 Human Diversity in Social Work Practice (3)

4. Complete one of the following courses:
   - PSYA682 Clinical Intervention for Addictive Behaviors (3)
   - SWK A671 Addictions and Social Work (3)

5. Complete two approved electives from the following:
   - EDSE A671 The Impact of Social Issues on Education (3)
   - PSY A643 AIDS and Substance Abuse Counseling (3)
   - PSY A680 Advanced Issues in Addictive Behaviors (3)
   - PSY A688 Assessment and Treatment Planning for Addictive Behaviors (3)
   - SWK A655 Social Work Approaches with Dually Diagnosed (3)

6. Completion of each course with a minimum grade of “C” and a “B” program GPA.

7. Submit an application to the Center for Alcohol and Addiction Studies, upon completion of the requirements, for a review of credentials and awarding of certificate.

MASTER OF EDUCATION

ADMISSION REQUIREMENTS

See the beginning of this chapter for admission to graduate programs. Students applying for the Master of Education must also complete the following:

1. Take the General Aptitude portion of the Graduate Record Examination (GRE), or Miller’s Analogy Test (MAT), as required. Contact each academic department for specific tests.

2. Prepare materials for a file in the School of Education by completing an application form and submitting other required materials. Information about specific programs is available in the School of Education. Students without appropriate and recent experience in the field may be required to sign up for a supervised practicum prior to admission.

3. Student files are reviewed twice each year, October 15 and March 15. It is the student’s responsibility to have the file completed and submitted by these dates.

4. An official program must be approved before completion of more than nine credits of course work.

NOTE: Eligibility requirements for some financial aid opportunities include admission to a specific graduate program.

ADMISSION PROCEDURES

When all official transcripts, examination scores, and other required materials have been received by Enrollment Services, a copy of the student’s file is forwarded to the School of Education and combined with the School of Education admission materials for consideration by a Graduate Committee (see admission requirements above). Students may be contacted for scheduling personal interviews with the committee after their completed files have been received. Written notification of committee action will be sent to the student.

One of the following actions can be expected from the Graduate Committee:

1. Unconditional admission.
2. Conditional admission with specified conditions.
3. Denial of admission for stated reasons.

CRITERIA FOR ADMISSION

Minimum Qualifications:

1. Hold a baccalaureate degree.
2. Have a grade point average of 3.00 (on a 4 point scale) in the last 30 credits.
3. Graduate Record Examination with a combined verbal and quantitative score of 800 or the Miller’s Analogy Test with scores at or above the 40th percentile.* Contact Department.

*The endorsement program in Special Education has different requirements. Contact the department for further information.

Competitive Qualifications:

Applicants who meet the above criteria will be considered for program admission on a competitive basis.

CANDIDACY REQUIREMENTS

See the beginning of this chapter for advancement to candidacy requirements.
When the student is in their final course work, the Graduate Committee will review the student’s progress for admission to candidacy. Candidacy allows the student to enter the final program phase which includes a written or oral comprehensive examination and, in some programs, the development of a portfolio, thesis, or investigative project. Students must have completed their course work with the minimum of a 3.0 GPA. The M.Ed. - Special Education Program requires a grade of “B” or better in all EDSE course work. No “C” grade earned in an undergraduate course can be counted toward a master’s program. In addition, the committee may seek evidence of a student’s acceptable performance in written expression.

**Graduation Requirements**

See the beginning of this chapter for general university requirements for graduate degrees and master’s level graduation requirements.

Students completing the Master of Education degree must also complete the following requirements:

1. All programs, with the exception of Adult Education and Counseling and Guidance, require at least one year successful contract teaching. For certification purposes, Principal candidates must have three years successful contract teaching and the Superintendent candidates must have five years (minimum three years as a teacher and one as an administrator).
2. An official program must be approved before completion of 9 credits of course work.
3. Completion of a minimum of 21 credits in a program at the graduate (600) level.
4. Completion of a minimum of 36 credits of approved course work.
5. At least 18 credits must be completed after the semester in which the student was admitted and approved by their graduate committee.
6. Pass a comprehensive written examination on the education “core” studies and the area of specialization. An oral examination may also be required by the student’s committee.

Cautionary Note: Graduate courses completed prior to being admitted as a graduate student will not necessarily be applicable toward a specific graduate degree program. Since recency of credits is of concern to the candidate’s committee when developing the graduate program, course work must be completed within a consecutive seven-year period prior to graduation in order to fulfill the requirements of the degree.

**Program Requirements (M.Ed.)**

Complete one of the following courses of study:

### A. Master Teacher with Specialty Options

Programs can be planned in such areas as:
- Middle School Education
- Curriculum and Instruction
- Early Childhood*
- Educational Technology

* This program will be delivered collaboratively, via distance education, with University of Alaska Southeast.

1. **Middle School Education**

2. **Curriculum and Instruction**

Students selecting the Middle School Education or Curriculum and Instruction specialty option shall complete the following core courses and their specialty option course work. See an academic advisor to plan specific course work for the specialty option.

   a. **Core courses (18 credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ED A621</td>
<td>Culture, Language and Literacy</td>
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</tr>
<tr>
<td>ED A622</td>
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</tr>
<tr>
<td>ED A698</td>
<td>Individual Research (1-6)</td>
<td>3</td>
</tr>
</tbody>
</table>

   b. **Select a specialty option consisting of a minimum of 18 credits and see an academic advisor to plan specific course work.**

   c. **A total of 36 credits is required for the degree.**

3a. **Early Childhood (without endorsement)**

   Core courses (15 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

   Required Courses (21 credits):

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECD A601</td>
<td>Approaches in Early Childhood: Preschool</td>
<td>3</td>
</tr>
<tr>
<td>ECD A605</td>
<td>Early Childhood Education Principles and Practices</td>
<td>3</td>
</tr>
<tr>
<td>ED S610</td>
<td>Guidance and Discipline in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECD A652</td>
<td>How Young Children Learn: The Development and Learning Processes of Young Children</td>
<td>3</td>
</tr>
<tr>
<td>EDSE A622Y</td>
<td>Strategies: Early Childhood Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDSE A674</td>
<td>Families: Developing Parent Professional Partnerships</td>
<td>3</td>
</tr>
<tr>
<td>ECD Electives by Advisement</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

A total of 36 credits is required for the degree without endorsement.

3b. **Early Childhood (with endorsement):**

   Core courses (15 credits):

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<tr>
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<tbody>
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<td>ED A698</td>
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</table>

   Required Courses (18 credits):

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<tr>
<td>EDSE A674</td>
<td>Families: Developing Parent Professional Partnerships</td>
<td>3</td>
</tr>
</tbody>
</table>
Choose one of the following endorsement tracks (9 credits):

a. Pre-K-Primary Endorsement:
   - ECD A664 Advanced Studies in Classroom Management for Young Children 3
   - ED S465 Math and Science for Young Children 3
   - ED S661 Advanced Studies in Young Children and Literacy 3

b. Early Intervention Credential/Early Childhood Special Education Endorsement:
   - EDSE A610Y Assessment: Early Childhood Special Education 3
   - EDSE A620Y Advanced Internship: Early Childhood Education 3
   - EDSE A681 Issues in Early Childhood Special Education 3

A total of 42 credits is required for the degree with endorsement.

4a. Educational Technology (without endorsement)

Core courses (18 credits):
   - ED A621 Culture, Language and Literacy 3
   - ED A622 Philosophy of Education 3
   - ED A627 Education Research 3
   - ED A631 Advanced Educational Psychology 3
   - ED A651 Curriculum Theory and Development 3
   - ED A698 Individual Research (1-6) 3

Required courses (18 credits):
   - ED A626 Technology in Teaching and Learning 3
   - ED A629 Multimedia Tools for Learning 3
   - ED A652 Educational Telecommunications and the Internet 3
   - ED A655 Implementing the Standards: Integrating Educational Technology into the Curriculum 3

Technology Electives (by advisement) 6

A total of 36 credits is required for the degree without endorsement.

4b. Educational Technology (with endorsement)

Core courses (18 credits):
   - ED A621 Culture, Language and Literacy 3
   - ED A622 Philosophy of Education 3
   - ED A627 Education Research 3
   - ED A631 Advanced Educational Psychology 3
   - ED A651 Curriculum Theory and Development 3
   - ED A698 Individual Research (1-6) 3

Required courses (21 credits):
   - ED A626 Technology in Teaching and Learning 3
   - ED A629 Multimedia Tools for Teachers 3
   - ED A652 Ed Telecommunications and the Internet 3
   - ED A655 Implementing the Standards: Integrating Educational Technology into the Curriculum 3
   - ED A657 Educational Technology Portfolio Development and Assessment Center 3

Technology Electives (by advisement) 6

A total of 39 credits is required for the degree with endorsement.

B. COUNSELING AND GUIDANCE

The M.Ed. in Counseling and Guidance is designed to serve baccalaureate graduates who have selected a career as a professional counselor. The program encompasses theory, research, and practice related to professional counseling in schools and agencies.

1. Core (30 credits):
   - ED A612 Community Relations 3
   - ED A627 Educational Research 3
   - ED A636 Innovations in Teaching and Learning 3
   - COUN A610 Foundations in Counseling 3
   - COUN A614 Counseling Diverse Populations 3
   - COUN A616 Counseling Theories 3
   - COUN A623 Counseling Skills 3
   - COUN A624 Group Counseling 3
   - COUN A632 Career Development 3
   - COUN A633 High Risk Issues for Youth 3

2. Choose one of four options:
   - Options A, B, and C may lead to an endorsement in Counseling and Guidance for an Alaska Type A certificate. Students who already possess a Master's degree may request waiver of the core education courses.
   - An Alaska Type C Certificate-Special Services requires a Master's degree in Counseling or related field and a minimum of 18 credits by special advisement.
   - Students seeking endorsement or certificate will need appropriate courses in exceptionalities and education of culturally different youth.

a. Elementary School Counseling (12 credits):
   - COUN A611 Roles and Responsibilities of the Elementary Counselor 3
   - COUN A634 Counseling Practicum I (Elementary Level) 3
   - COUN A636 Counseling Practicum II (Elementary Level or Agency) 3
   - Electives by advisement 3

b. Secondary School Counseling (12 credits):
   - COUN A615 Roles and Responsibilities of a Secondary School Counselor 3
   - COUN A634 Counseling Practicum I (Secondary Level) 3
   - COUN A636 Counseling Practicum II (Secondary Level or Agency) 3
   - Electives by advisement 3

c. K-12 School Counseling (15 credits):
   - COUN A611 Roles and Responsibilities of the Elementary Counselor 3
   - COUN A615 Roles and Responsibilities of a Secondary School Counselor 3
   - COUN A634 Counseling Practicum I (Elementary Level) 3
   - COUN A636 Counseling Practicum II (Middle level or High School) 3
   - Electives by advisement 3

d. General Counseling (12 credits):
   - COUN A634 Counseling Practicum I (agency) 3
   - COUN A636 Counseling Practicum II (agency) 3
   - Electives by advisement 6

3. A total of 42-45 credits, depending on option, is required for the degree.
C. Educational Leadership

The UAA Educational Leadership program has a statewide mission.

Program Requirements:
1. At least one year of experience as certificated elementary or secondary teacher.
2. Eligible for Alaska Teaching Certificate.
3. GRE/MAT for Masters of Education program only.

a. Masters of Education/Principal Type B Certificate Program

1. Foundation Core (12 credits):
   - ED A627 Education Research 3
   - ED A636 Innovations in Teaching and Learning 3
   - 600 level electives by Advisement 6

2. Required Courses (24 credits):
   - EDLA637 Educational Leadership and Organizational Behavior 3
   - EDLA638 Instructional and Curricular Leadership 3
   - EDLA639 Politics of Education 3
   - EDLA640 Law and Ethics in Education 3
   - EDLA641 Principal Internship (3-6) 6
   - EDLA642 Principal Seminar I 3
   - EDLA643 Principal Seminar II 3

3. A total of 36 credits is required for the degree and to apply for an institutional recommendation for a Type B certificate from the Alaska State Department of Education.

b. Principal Type B Certificate

Program Requirements:
1. See Program Requirements above.
2. Students must hold a master’s degree.
3. Required courses (24 credits):
   - EDLA637 Educational Leadership and Organizational Behavior 3
   - EDLA638 Instructional and Curricular Leadership 3
   - EDLA639 Politics of Education 3
   - EDLA640 Law and Ethics in Education 3
   - EDLA641 Principal Internship (3-6) 6
   - EDLA642 Principal Seminar I 3
   - EDLA643 Principal Seminar II 3

4. A total of 24 credits is required to apply for an institutional recommendation for a Type B certificate from the Alaska State Department of Education.

c. Superintendent’s Endorsement

Students wanting a superintendent’s endorsement must have completed the above or a comparable principal preparation program, possess a master’s degree, and meet all preservice Alaska State Department of Education requirements for endorsement. In addition, they must take the following or verify comparable course work:
   - EDLA671 Superintendent Stewardship and Systemic Change 3
   - EDLA672 Student Performance: Academic and Developmental 3
   - EDLA673 Human Resource Management and Labor Relations 3
   - EDLA674 Public School Finance and Facilities 3
   - EDLA675 Superintendent Internship 6
   - EDLA676 Superintendent Seminar I 3
   - EDLA677 Superintendent Seminar II 3

A total of 24 credits is required to apply for an institutional recommendation for the superintendent endorsement.

D. Special Education

The UAA Special Education program has a statewide mission.

a. General Special Education

The M.Ed. in Special Education program is designed for individuals who desire advanced professional preparation in Special education. The program encompasses theory, research, and practice relating to individuals who experience disabilities.

Program Requirements
1. At least two years of appropriate professional experience
2. Required courses (36 credits):
   - ED A627 Education Research 3
   - EDSE A460 Advanced Theories of Disabilities 3
   - EDSE A671 The Impact of Social Issues on Education 3
   - EDSE A642 Current Trends in Special Education 3
   - EDSE A698 Individual Research (1-6) 6
   - EDSE A699 Thesis (1-6) Electives by advisement 18
   - Documentation of computer technology skills or completion of ED A320 or ED A626 or other computer technology course.
   - A total of 36 credits is required for the degree.

This program does not lead to an endorsement on the Type A teaching credential in Alaska; however, this program may be pursued simultaneously with the endorsement program.

b. Special Education Endorsement

The special education endorsement program is designed for individuals who desire initial professional preparation in special education. Successful completion of the program, which includes the development of a professional portfolio, leads to an endorsement on the Type A teaching credential in Alaska.

1. Type A teaching credential in Alaska
2. Prerequisite courses must be completed prior to enrolling in required program courses. Contact School of Education for additional information.
3. Required courses: (24 credits)
   - EDSE A460 Exceptional Learner 3
   - EDSE A610 Assessment: Learning and Behavior 3
   - EDSE A612 Curriculum and Instruction in Special Education 3
   - EDSE A614 Beginning Internship in Special Education 3
   - EDSE A620 Advanced Internship in Special Education 6
   - EDSE A622 Educational Strategies in Special Education 3
   - EDSE A671 The Impact of Social Issues on Education 3
   - EDSE A685 Young Children with Complex Needs 3
3. Electives by advisement 18

4. Documentation of computer technology skills or completion of ED A320 or ED A626 or computer technology course.
5. A total of 24 credits is required for the endorsement.

c. Early Childhood Special Education with Endorsement

1. Required Courses:
   - EDSE A474 Special Children from Birth through Five 3
   - EDSE A610Y Assessment: Early Childhood Special Education 3
   - EDSE A620Y Advanced Internship: Early Childhood Special Education 6
   - EDSE A622Y Strategies: Early Childhood Special Education 3
   - ED A627 Education Research 3
   - EDSE A674 Families: Developing Parent Professional Partnerships 3
   - EDSE A681 Issues in Early Childhood Special Education 3
   - EDSE A685 Young Children with Complex Needs 3
   - Electives by advisement 9
E. ADULT EDUCATION**

The M.Ed. in Adult Education program is designed to serve baccalaureate graduates who have selected a career as a reflective practitioner, who strive to enhance their knowledge and skills in serving adult learners, and who have a commitment to lifelong learning. The program encompasses theory, research, and practice relating to adult learners, adult educators, leadership and adult education processes, providers and programs.

**This program has special admission requirements. Contact School of Education for further information.

1. These core courses are required in the adult education program (12 credits):
   - ED A627 Education Research 3
   - EDAE A645 The Teaching of Adults 3
   - EDAE A655 The Adult Learner 3
   - EDAE A665 History and Philosophy of Adult Education 3

2. Complete one of three options:

A. Distance Learning and Technology
   - ED A629 Multimedia Tools for Learning (3) 3
   - ED A626 Technology in Teaching and Learning (3) 3
   - EDAE A667 Distance Learning and Adult Education 3
   - EDAE A691 Professional Seminar 3
   - EDAE A695 Advanced Practicum in Adult Education 1-6
   - EDAE A698 Individual Research(1-3) 3
   - EDAE A699 Thesis (1-3)
   - Electives by advisement 3-11

B. Human Resource Development and Leadership
   - EDAE A650 Principles of Human Resource Development 3
   - EDAE A657 Leadership (3) 3
   - EDAE A658 Organization and Administration of Adult Education (3)
   - EDAE A691 Professional Seminar 3
   - EDAE A695 Advanced Practicum in Adult Education 1-6
   - EDAE A698 Individual Research(1-3) 3
   - EDAE A699 Thesis (1-3)
   - Electives by advisement 3-11

C. Curriculum and Instruction
   - EDAE A678 Curriculum and Program Planning in Adult Education 3
   - EDAE A679 Methods and Materials in Adult Education 3
   - EDAE A691 Professional Seminar 3
   - EDAE A695 Advanced Practicum in Adult Education 1-6
   - EDAE A698 Individual Research(1-3) 3
   - EDAE A699 Thesis (1-3)
   - Electives by advisement 3-11

3. In lieu of a comprehensive examination, students in the M.Ed. in Adult Education program will prepare a portfolio throughout their study process to verify their knowledge and skill in each of the adult education excellencies specified in their program. At the conclusion of their master’s work, students will present their portfolios to their committee members.

4. A total of 36 credits is required for the degree.

MASTER OF ARTS IN TEACHING, EDUCATION

Admission to the M.A.T. program is suspended for the academic year 2000-2001, as the School of Education has designed a new post baccalaureate program in secondary education. Please contact the School of Education for additional information.

The Master of Arts in Teaching degree (M.A.T.) is an intense, integrated program of course work and practica that prepares teachers to work and learn with secondary students in a wide variety of educational settings; the M.A.T. program may lead to an Alaska Type A Teaching Certificate. This program assists students in their development as professional educators who are committed to a life of reflective practice; to roles as models of moral, ethical and caring citizens; and to positions as leaders in their communities. Certification is awarded by the Alaska Department of Education in Juneau. Therefore, students must meet all requirements specified by AK-DOE at the time of their application for the teaching certificate.

Approved teaching endorsement areas for the M.A.T. are:

- Art
- English as a Second Language
- General Science
- English
- Biology
- Mathematics
- Geology
- Music
- Chemistry
- Social Studies
- History
- Language
- Journalism and Public Communication

Note: Teaching endorsements must be completed in accordance with the approved teaching major checklist on file at the School of Education.

ADMISSION REQUIREMENTS

See the beginning of this chapter for admission to graduate programs.

Students applying for the Master of Arts in Teaching must also meet these requirements:

1. Baccalaureate degree with a GPA of 3.00.
2. Combined score of 800 on the verbal and quantitative sections of GRE exam, or a passing score on the Miller’s Analogy Test.
3. Three letters of recommendation.
4. Interview with Secondary Education faculty. The interview process includes an on-site writing sample.
5. A completed approved teaching major with passing NTE scores, or the appropriate NTE exam at the 80 percentile or above.
6. Documented positive experience with adolescents preferred.
ADDING ENDORSEMENTS

Individuals wishing to add endorsements to their Type A Secondary teaching certificate must:

1. Complete the approved teaching major requirements with a 2.5 GPA or place in the 80 percentile on the appropriate NTE exam. (No grade below a “C” may be used to fill a certification requirement).
2. Receive a passing score on the appropriate NTE or other require competency exam.
3. Receive a grade of “B” or better in the appropriate methods courses.
4. Student teach in an advanced practicum.

Note: Additional course work may be required by the academic advisor based on the appropriateness and recency of the individual’s course work.

CANDIDACY REQUIREMENTS

See the beginning of this chapter for advancement to candidacy requirements.

PROGRAM REQUIREMENTS

1. Required Courses (36 credits):
   - ED A626 Technology in Teaching and Learning 3
   - ED A627 Education Research 3
   - EDSE A671 The Impact of Social Issues on Education 3
   - ED A681 Neurological Foundations: Development and Learning 3
   - ED A682 Curriculum Development Processes 3
   - ED A683 Methods for Secondary Education 3
   - ED A687 Advanced Practicum: Education (1-12) 6
   - ED A688 Student Teaching in Secondary Education 12

2. A written comprehensive examination over both the professional studies and the area of endorsement must be completed by the candidate prior to graduation. The written competency examination may be taken either before or after completion of the final phase of ED A687, Advanced Practicum: Education.
3. For certification purposes, the State of Alaska requires the successful completion of an approved course in Alaska Studies. Contact the School of Education for additional information.
4. A total of 36 credits is required for the degree.

CERTIFICATION ONLY - GRADES 7-12

Certification only - Grades 7-12 is available for students who need a more flexible option for their secondary level teacher education program, or who prefer to get their Master’s degree in their discipline. Certification only - Grades 7-12 is an intense, integrated program of courses work and practica which prepares teachers to work with secondary students in a wide variety of education settings; the M.A.T. program may lead to an Alaska Type A Teaching Certificate. This program assists students in their development as professional educators who are committed to a life of reflective proactive; to roles as models of moral, ethical and caring citizenship; and to positions as leaders in their communities.

Certification is awarded by the Alaska Department of Education in Juneau. Therefore, students must meet all requirements specified by AK-DOE at the time of their application for the teaching certificate.

The Certification Only-Grades 7-12 program must be completed within four years of the date of admission to the program.

The Secondary Education Field Experiences Coordinator will make reasonable efforts to place students in practica and student teaching. Placement is dependent upon availability of resources in the community and in the School of Education. Acceptance into the Certification Only - Grades 7-12 program does not guarantee acceptance by cooperating field experience settings.

ADMISSION REQUIREMENTS

Certification Only - Grades 7-12 applicants who have met the following requirements will compete for spaces in the Secondary Education Program bases on: 1. depth and breadth of content knowledge and experience; 2. experience with adolescents; 3. faculty recommendations; 4. baccalaureate degree; 5. 3.00 cumulative GPA; 6. Scores on the Praxis I test at or higher than the 75th Percentile. (In the event that the minimum passing score established by the State of Alaska exceeds the 75th percentile, the students are required to meet the higher score); 7. A completed approved teaching major with passing scores on the appropriate NTE/Praxis II test, or a score at or above the 80th percentile on the appropriate NTE/Praxis II test; 8. three letters of recommendation addressing academic ability and experience with children and adolescents; 9. documented experience with adolescents preferred; 10. interview with Secondary Education faculty which includes an on-site writing sample.
PROGRAM REQUIREMENTS

1. Required Courses (36-37 credits):
   - ED A622 Philosophy of Education 3
   - ED A626 Technology in Teaching and Learning 3
   - ED A681* Neurological Foundations: Development and Learning (3) 3
   - ED A654 Brain Theories: Development and Learning (3)
   - ED A682* Curriculum Development Processes (3)
   - ED A651 Curriculum Theory and Development (3)
   - EDSE A671* The Impact of Social Issues on Education (3)
   - EDSE A419 Diversity in the Classroom (3)
   
   The coursework listed above must be completed before the student can be admitted to the methods sequence.
   - ED A683* Methods for Secondary Education (3) 3-4
   - Methods courses specific to the content area (i.e., LANG A476/MUS A471/A472, ART A442/418, JPC A601)
   - ED A687 Advanced Practicum: Education 3
   
   All of the program requirements must be met before the student will be admitted to student teaching.
   - ED A688 Student Teaching in Secondary Education 12
   - Alaska Studies Course 3
   (must be from a list of courses approved annually by the Alaska Department of Education).
   
   Total 36-37
   
   *Note: Courses only taught Fall Semester.

FACULTY

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SCHOOL OF NURSING

nursing.uaa.alaska.edu/son/
Classroom Building K (K), Room 103, (907) 786-4550

Graduate studies at the master’s level place primary emphasis upon advanced professional nursing practice, theory, research, and health care delivery systems. Students may develop a specialized practice focus in Community Health Nursing, Psychiatric-Mental Health Nursing, Health Care Administration, or as a Family Nurse Practitioner. Master’s level studies provide the student with a basis for further study at the doctoral level. The graduate program is accredited by the National League for Nursing Accreditation Commission (61 Broadway, New York, NY 10006; 212-363-5555 ext 153). Graduates in the Family Nurse Practitioner option are eligible to write the national certification examination for advanced professional practice as a family nurse practitioner. Graduates of the Health Care Administration option are eligible, after nurse executive practice, to write the national certification exam for advanced nursing administration. Graduates of the Psychiatric-Mental Health Nursing Option are eligible, after additional post-master’s clinical practice and supervision, to write the national certification examination for advanced practice as a clinical specialist in psychiatric-mental health nursing.

MASTER OF SCIENCE, NURSING SCIENCE

ADMISSION REQUIREMENTS

See the beginning of this chapter for graduate admission requirements and deadlines. The following application submission deadlines are recommended to ensure full processing of application and transcripts:

- December 15th for March 1 applicants
- August 15th for November 1 applicants

Students applying to the Master of Science program in Nursing Science must also submit documentation of having met the following requirements:

1. Earned baccalaureate degree in nursing from a program accredited by the National League for Nursing.
2. Undergraduate (and graduate, if applicable) grade point average of 3.00 on a 4.00 scale.
3. Scores from the Graduate Record Examination or Miller’s Analogy Test.
4. Grade of 2.00 (“C” or higher) in a research methods course and a statistics course which covers descriptive and inferential statistics.
5. Licensure as a registered professional nurse in the State of Alaska concurrent with enrollment in first clinical course.
6. For the Family Nurse Practitioner option, preparation in health history taking, and physical assessment within the last five years (preparation may be documented by an academic course, continuing education units or a challenge exam).
7. The School of Nursing graduate admission application must be submitted directly to the School of Nursing.
8. Three letters of reference submitted directly to the School of Nursing. References may be contacted by a member of the Admissions Committee.
9. Essay relative to career goals, career development plans and personal/professional philosophy submitted directly to the School of Nursing.
10. Minimum of one year of half-time clinical experience as a Registered Nurse.

Application deadlines:
- November 1 for GRADUATE STUDY only.
- March 1 for GRADUATE STUDY and/or CLINICAL SPECIALTY.

Special consideration may be given to candidates with clinical expertise and a proven record of professional contributions. Such candidates will need to submit documentation of their expertise and contributions along with their request to the Admissions Committee for special consideration. To the extent that there are limited seats available in the program, preference may be given to residents of the State of Alaska as defined by the University’s policy on residency for tuition purposes.

ACADEMIC PROGRESS

Students enrolled in the Graduate Nursing Program must maintain a 3.0 (B) GPA in all required course work. Students must earn a grade of “B” or higher in all clinical courses. If a student earns less than a “B” in a clinical course, that student must, on a space available basis, retake the course the next time it is offered. A clinical course may be retaken only once. A student’s Graduate Nursing Program may include a maximum of two “C” grades. Grades below a “C” will not be applied to degree requirements. Noncompliance with this policy will result in academic probation, and possible dismissal from the program.

GRADUATION REQUIREMENTS

See the beginning of this chapter for master’s level graduation requirements.

PROGRAM REQUIREMENTS

1. Complete the following required courses (18 credits):
   - NS A620 Nursing Research Methods 3
   - NS A621 Knowledge Development for Advanced Nursing Practice 4
   - H5/NS A625 Biostatistics for Health Professionals 3
   - NS A642 Professional Nursing in Perspective 3
   - NS A699 Thesis (2-3) 5

2. Complete one of the following options (19-25 credits):
   A. Family Nurse Practitioner Option (24 credits):
      - NS A610 Pharmacology for Primary Care 3
      - NS A660 Family Nurse Practitioner I 4
      - NS A661 Family Nurse Practitioner II 5
      - NS A662 Family Nurse Practitioner III 6
      - NS A663 Family Nurse Practitioner, Clinical Concentration 3
      - Elective 3
   B. Psychiatric-Mental Health Nursing Option (19 credits):
      - NS A670 Advanced Psychiatric/Mental Health Nursing I 3
      - NS A671 Advanced Psychiatric/Mental Health Nursing II 3
      - NS A672 Advanced Psychiatric/Mental Health Nursing III (3/6) 6
      - NS A674 Topics in Advanced Psychiatric/Mental Health Nursing 4
      - Elective 3

   C. Community Health Nursing Option (25 credits):
      - NS A626 Principles of Epidemiology 3
      - NS A650 Advanced Community Health Nursing I 4
      - NS A651 Advanced Community Health Nursing II 4
      - NS A652 Advanced Community Health Nursing III 4
      - NS A656 Grant Writing for Health Professionals 1
      - NS A658 Public Health Policy 3
      - Electives 6

   D. Health Care Administration Option (22-23 credits):
      - NS A658 Public Health Policy 3
      - NS A681 Analysis of Health Services 3
      - NS A682 Administrative Services 3
      - NS A682L Administrative Services Fieldwork (Optional) 1
      - NS A695 Practicum in Health Care Administration 4
      - Choose either set of nine credits from the following:
        - NS A610 Organizational Theory and Behavior(3) 9
        - NS A624 Human Resources Administration (3)
      - Elective, Advisor approved(3)
      - BAA632 Organizational Behavior and Human Resource Management(3) 6
      - Electives, Advisor approved (6)

3. A total of 37-43 credits is required for the degree.

CANDIDACY

The student is eligible for advancement to candidacy after demonstration of ability to succeed in graduate study through approval of the thesis proposal by the student’s thesis committee and the UAA Institutional Review Board (IRB).

THESIS CREDITS

A total of 5 credits of thesis is required for the degree. Students who are unable to complete the thesis while registered for 5 credits may be given a DF (deferred) grade for one semester; those students will be required to complete the Graduate Continuous Registration procedures (at the beginning of this chapter) and pay all fees. Students who are unable to complete the thesis during these three semesters will be required to register for 2 credits of NS A699 Thesis every semester thereafter (excluding summer sessions) until the thesis is satisfactorily completed. There is no limit to the number of thesis credits that may be accrued; however, no more than 13 credits of thesis may be accrued without the student being required to take additional course work at the graduate-level. Specific requirements for additional course work will be determined by the Director of the Graduate Program in Nursing and the Thesis Chair.

PART-TIME/FULL-TIME STUDY

Options are available for full-time and part-time study. Prior to being formally admitted to graduate study, students may complete up to nine credits of degree applicable course work, either UAA credit (with permission of the instructor) or transfer credit.

For part-time students, admission to Graduate Study only is recommended, with formal admission to a specialty track being delayed until core course requirements have been completed. Enrollment in any clinical course requires formal admission to graduate study and to the specialty track.
ADDITIONAL REQUIREMENTS

All students enrolled in UAA nursing programs must provide documentation of continuous current certification in Cardiopulmonary Resuscitation (CPR) for adults, infants, and children; continuous professional malpractice insurance in amounts of $1 million/$3 million, and evidence of satisfactory health status, including immunity to chicken pox, rubella, rubeola, and hepatitis B (by titer), documentation of diphtheria/tetanus immunization within the past 10 years, annual PPD skin test or health exam indicating freedom from active tuberculosis, and documentation of an annual HIV test (results not required).

Students are required to provide their own transportation to clinical sites. Students are also responsible for their portion of the cost of audio-conferencing. It is recommended that students have access to a personal computer and that they gain basic skills in computerized word processing prior to entry into the nursing programs.

SCHEDULING OF COURSES

Graduate nursing courses are offered in an alternative scheduling format consisting of intensive classroom sessions presented in short time blocks on the UAA campus followed by periodic class meetings throughout the semester that are available via computer and audio-conference. Thus, it is possible for students who reside outside of Anchorage to take advantage of the opportunity to pursue graduate study at UAA. In addition, all students have the opportunity to take advantage of clinical learning opportunities throughout the State, including both urban and rural settings.

FACULTY

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SOCIAL WORK

www.uaa.alaska.edu/socwork/
Classroom Building K (K), Room 218, (907) 786-6900

The Master of Social Work Degree at the University of Alaska Anchorage has as its purpose preparation of professionally trained advanced generalist social work practitioners. The advanced generalist, prepared for direct practice, administration, program and policy development and evaluation, and case management, can respond to a wide range of client and agency needs in the public and non-profit sector in Alaska as well as other geographical areas.

In June, 1999, the Council on Social Work Education granted initial accreditation to the UAAMSW program.

The MSW degree is structured to allow students to participate in full-or part-time plans requiring from one to four years of study, dependent upon prior academic preparation for graduate studies in social work. The foundation curriculum is comprised of 31 semester credits and is required for students who have not earned a baccalaureate degree in social work from an accredited program within the last seven years. The foundation curriculum is sequenced to provide a professional preparation for advanced generalist social work education. All students will waive, test-out, or take all courses required in the foundation curriculum of the program. Students who have previously earned a BSW degree from a CSWE accredited program and who are determined to be qualified for admission with advanced placement to the Concentration curriculum must first complete SWK 592, a preparatory four-day Social Work Summer Intensive. The concentration curriculum is comprised of 32 credits and is required for all MSW students. The concentration sequence provides for breadth and depth in advanced generalist practice, including specific fields of practice such as mental health, children, youth and families; health and wellness over the lifespan; and criminal justice. All students entering the program will do so with an Official Graduate Studies Plan tailored to meet their own educational needs.

PROFESSIONAL PROGRAM FEE

A Professional Program Fee is required of all students in the MSW in addition to course tuition fees, lab and course material fees, and student activity fees. The Professional Program Fee is a sum equal to 50% of tuition, and is charged upon enrollment in MSW courses.

MASTER OF SOCIAL WORK

ADMISSION REQUIREMENTS

1. Deadline for application: January 15th. This is the only application date for the year.
2. Submit UAA graduate application for admission with fee and meet requirements found on the beginning of this chapter.
3. Submit complete undergraduate transcripts.
4. Submit the MSW Admissions Packet available through the School of Social Work, which will include three (3) letters of reference from employers, supervisors or academic faculty and a sample of academic or professional writing in addition to other materials.

The MSW program reserves the right to request additional materials pertaining to program admission.

**LIBERAL ARTS REQUIREMENTS FOR ADMISSIONS**

The MSW program requires that all incoming students have successfully completed a baccalaureate degree in the liberal arts from an accredited institution of higher learning. The liberal arts baccalaureate should include successful coursework in the following areas:

1. Two (2) university courses in the humanities (history, philosophy, languages, literature, or similar disciplines);
2. Two (2) university courses in the social sciences (political sciences, sociology, anthropology, psychology, or similar disciplines)(see note below concerning human development);
3. One (1) university course in the fine arts (music, theater, art appreciation or similar disciplines);
4. One (1) university course in oral communication;
5. One (1) university course in written communication;
6. Two (2) university courses in the natural sciences and/or mathematics (biology, chemistry, physics, geology, astronomy or from similar disciplines; algebra, calculus, trigonometry, statistics, or similar disciplines)(see notes below concerning human biology and statistics).
7. A minimum of forty-five (45) semester credits or sixty-eight (68) quarter credits which in total reflect the courses identified in the above list of liberal arts classes. The remaining earned academic credits can be distributed in any combination of course work.

As part of the liberal arts preparation, the MSW Program has established the following three specific prerequisites to admission: prior course work in human biology (one course); human development over the entire life span (one course); and applied statistics (one course). The human biology and human development courses provide educational background for understanding the biopsychosocial determinants of human behavior. The applied statistics course provides exposure to objective knowledge development. A minimum grade of "C" is required for each of the prerequisite courses.

**ACADEMIC PROGRESS**

To maintain satisfactory progress toward the degree, a student in the MSW program is expected to achieve a GPA of "3.00" or better on a "4.00" scale, with no individual course grade lower than a "C," and to adhere to the Code of Ethics of the National Association of Social Workers. Students must earn a grade of "B" or better in all field practicum courses.

The MSW Field Education Coordinator will make reasonable efforts to place MSW students in field placement. Placement is dependent upon availability of resources in the community and in the department. Acceptance into the MSW program does not guarantee acceptance by cooperating practicum settings. Field placements located outside the Anchorage/Matanuska-Susitna Valley area carry additional fees in order to help support field coordination expenses.

**TRANSFER CREDITS**

Up to 9 semester credits from a CSWE-accredited MSW program may be transferred to UAA and counted toward degree completion. Quarter credits will be converted to semester credits by multiplying quarter credits by two-thirds.

**CANDIDACY FOR MASTER OF SOCIAL WORK DEGREE**

1. Refer to advancement to candidacy criteria found at the beginning of this chapter.
2. Submit the Application for Advancement to Candidacy packet available through the Social Work Department.
3. Successfully complete MSW comprehensive examination, given in the Integrative Seminar during spring semester of the concentration year of the program.

**GRADUATION REQUIREMENTS**

1. See the beginning of this chapter for Masters level degree requirements.
2. Successful completion of individual research project.
3. Successful completion of all required academic course work specified on the Official Graduate Studies Plan, with a GPA of "3.00" or better and no course grade of lower than a "C," and no practicum course grade lower than a "B."

**PROGRAM REQUIREMENTS**

The following outlines course requirements for the full-time program plan. Students admitted to the program on a part-time basis will take from 2-7 credits each semester: fall, spring and summer, for two to four years dependent upon prior academic preparation. A copy of the part-time program plan is available from the School of Social Work.

1. Foundation Curriculum: Complete, test-out, or waive the following required courses in the foundation sequence:

   **Fall - Year One**
   
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWK A606</td>
<td>Social Welfare: History and Contemporary Programs</td>
<td>3</td>
</tr>
<tr>
<td>SWK A630</td>
<td>Practice Skills Lab</td>
<td>1</td>
</tr>
<tr>
<td>SWK A631A</td>
<td>Social Work Practice I</td>
<td>3</td>
</tr>
<tr>
<td>SWK A631B</td>
<td>Generalist Practicum I*</td>
<td>3</td>
</tr>
<tr>
<td>SWK A642</td>
<td>Human Behavior in the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>SWK A643</td>
<td>Human Diversity in Social Work Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

   **Spring - Year One**
   
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWK A607</td>
<td>Contemporary Social Welfare Policy and Change</td>
<td>3</td>
</tr>
<tr>
<td>SWK A624</td>
<td>Social Work Research</td>
<td>3</td>
</tr>
<tr>
<td>SWK A632A</td>
<td>Social Work Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SWK A632B</td>
<td>Generalist Practicum II*</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWK A607</td>
<td>Social Work elective.*</td>
<td>3</td>
</tr>
</tbody>
</table>

   **Graduate-level Social Work elective.**
2. Concentration Curriculum:

**Fall - Year Two**
- SWK A608 Social Policy for Advanced Generalist Practice 3
- SWK A625 Social Work Research Lab 1
- SWK/HS A628 Program Evaluation 3
- SWK A633A Social Work Practice III: Direct Practice 3
- SWK A634A Social Work Practice IV: Indirect Practice 3
- Graduate-level Social Work elective.** 3

**Spring - Year Two**
- SWK A633B Advanced Generalist Practicum III* 3 (may be taken in the fall semester)
- SWK A634B Advanced Generalist Practicum IV* 4
- SWK A635 Advanced Generalist Integrative Seminar 3
- SWK A698 Individual Research Project 3
- Graduate-level Social Work elective.** 3

3. A minimum of 32 credits is required for the two year Master of Social Work Degree.

* Course number will vary in the case of distance field placement.
** A total of 6 credits of electives to pursue professional emphasis may be selected from outside the School of Social Work offerings. Contact the School of Social Work for a full list of available electives and scheduled course offerings.

** Research Project**

All students are required to complete an independent research project in the concentration year of study. The project is an opportunity for the student to conduct an original research project under the guidance of a faculty member. Students attend a weekly seminar to facilitate the process. The research process includes formulating the research question, conducting a literature review, designing and conducting the study, analyzing the data, writing the research report, and disseminating the results to faculty, fellow students and the appropriate practice community. Students are expected to comply with UAA policies and procedures for the protection of human subjects.

**FACULTY**

* Patrick Cunningham, Associate Professor, AFPMC@uaa.alaska.edu  
* Janet Emerman, Assistant Professor, AFJLE@uaa.alaska.edu  
* Carolyn Hughes, Assistant Professor, AFCSH@uaa.alaska.edu  
* Eva Kopacz, Asst Prof/MSW Prac Coord, AFYEK1@uaa.alaska.edu  
* Randy Magen, Associate Professor, AFRHM1@uaa.alaska.edu  
* Chad Morse, Assistant Professor, AFCEM@uaa.alaska.edu  
* Elizabeth A. Sirles, Professor, AFEASI@uaa.alaska.edu  
* Spencer Zeiger, Assoc Prof/BSW Coord, AFSJZ@uaa.alaska.edu
The Vocational Education program at UAA exists to provide graduate instruction for educators specializing in vocational education at the secondary and postsecondary level, vocational administrators, and industry trainers. Department faculty and administrative offices are located at UAA in the Community and Technical College, but instruction is delivered across the State through the use of video- and audio-conferencing, the University of Alaska Computer Network, and traveling instructional faculty who deliver on-site instruction. To meet the needs of distance education students a portion of the degree program offers the option of completing Performance Based Teacher Education (PBTE) modules. These are competency-based instructional modules on a variety of vocationally related topics. Each student’s program is jointly designed by the student and a faculty advisor.

**Master of Science, Vocational Education**

**Admission Requirements**

See the beginning of this chapter for general university requirements and deadlines.

**Graduation Requirements**

1. See the beginning of this chapter for general university requirements for graduate degrees and master’s level graduation requirements.
2. An official program developed jointly between the student and faculty advisor must be approved before completion of 12 credits of course work.
3. Only 9 credits may be at the 400-level.
4. Completion of a minimum of 36 credits of approved course work in the program.
5. Successfully complete VE A698: Individual Research (project or thesis) with committee approval.
6. Once the final project or thesis is approved, students must enroll in at least 3 credits of VE A698, Individual Research, and maintain continuous enrollment every semester (except summer) until project or thesis is completed.
7. Pass a comprehensive written examination based on the student’s program of study.

**Degree Requirements**

A. Technical Competency

Students must demonstrate technical competency appropriate to vocational education using one of the following methods:

1. An occupational credential that documents at least one year’s experience beyond the apprentice level. Examples include journey-level union card, certified dental assistant, etc.
2. Three or more years of documented experience beyond the apprentice level in a field of employment such as automobile mechanics, building contracting, accounting, or culinary arts.
3. An associate degree in a vocational area.
4. At least 30 credits of course work of subject matter corresponding to a major. Up to 9 credits of upper-division course work may be applied toward the Master of Science degree.
5. A combination of academic and employment experience with a minimum of 30 credits in a vocational area and two years of successful work experience.

B. Computer Competency

Students must demonstrate computer competency appropriate to vocational education using one of the following methods:

1. A 3-credit or equivalent course using one or more of the following applications: word processing, spreadsheets, databases, or communications, or an introductory course in data processing or microcomputers.
2. Work-related experience in computer competency as approved by the student’s graduate advisor.
3. Self-initiated computer competency as approved by the student’s graduate advisor.

**Program Requirements**

Note: The Vocational Education Program is undergoing curriculum changes. Contact department.

1. Complete the Vocational Education core courses (18 credits):

   - ED A626 Technology in Teaching and Learning 3
   - VE A611 Philosophical Foundations of Vocational Education 3*
   - VE A622 Organization and Administration of Vocational Education 3
   - VE A633 Current Issues in Vocational Education 3
   - VE A643 Methods of Instruction in Vocational Education (3) 3**
   - VE A644 Improving Instruction in Vocational Education (3)
   - VE A655 Curriculum Development in Vocational Education 3

   *If credit was earned for VE A411, students must substitute a three credit, VE 600-level course approved by the advisor for VE A611.
   **VE A643 is recommended if an educational methods course has not been completed.

2. Complete the research component (a minimum of 6 credits):

   - ED A627 Educational Research 3
   - VE A698 Individual Research (1-6 credits) 3

3. Complete 12 credits of electives jointly selected with the graduate advisor. Electives may be in a technical area. Only six credits of Performance Based Teacher Education (PBTE) modules may be used in partial fulfillment of this requirement.

4. A total of 36 credits is required for the degree.

**Faculty**

- Erie Johnson, Associate Professor, AFEVJ@uaa.alaska.edu
- Jean Marcey, Assistant Professor, AJLJM@uaa.alaska.edu

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www.uaa.alaska.edu
The School of Engineering offers graduate degrees in Arctic Engineering, Civil Engineering, Engineering Management, Science Management, Environmental Quality Engineering and Environmental Quality Science. The four engineering degree programs require a baccalaureate degree in engineering for admission while the two science degree programs require a baccalaureate degree in science as an entrance requirement. The graduate offerings of the School of Engineering are scheduled to accommodate evening students. As a result the graduate programs normally require two or more years for completion.

A project or thesis may be required as a part of each graduate program within the School of Engineering. A lecture course may, with the approval of the student’s graduate committee, be substituted for the project. For this option, students must have completed the equivalent of a master’s research project.

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 knowledge of heat transfer processes and properties of frozen ground and frozen water, which are basic to most engineering activities in the Arctic. The areas of hydraulics, hydrology, materials 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 area of interest. Research activities carried out by faculty associated with this program can provide opportunities for project papers dealing with the most current Arctic knowledge.

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.

**ARCTIC ENGINEERING**

[www.engr.uaa.alaska.edu](http://www.engr.uaa.alaska.edu)

*Engineering Building (ENGR), Room 201, (907) 786-1900*

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 knowledge of heat transfer processes and properties of frozen ground and frozen water, which are basic to most engineering activities in the Arctic. The areas of hydraulics, hydrology, materials and utility operations are also uniquely affected by Arctic considerations.

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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, ARCTIC ENGINEERING**

**ADMISSION REQUIREMENTS**

See the beginning of this chapter for admission to graduate programs. All students must hold a baccalaureate degree in an engineering discipline.

**GRADUATION REQUIREMENTS**

See the beginning of this chapter for general university requirements for graduate degrees.

**PROGRAM REQUIREMENTS**

1. Complete 15 credits of core courses from the following:

   - CE A603 Arctic Engineering (3)
   - CE A681 Frozen Ground Engineering (3)
   - CE A682 Ice Engineering (3)
   - CE A683 Arctic Hydrology and Hydraulic Engineering (3)
   - CE A684 Arctic Utility Distribution (3)
   - CE A686 Civil Engineering Project (1-6)
   - ME A685 Arctic Heat and Mass Transfer (3)
   - ME A687 Arctic Materials Engineering (3)

2. Complete 15 credits of electives in areas related to or supportive of the student’s degree program and approved by the student’s graduate committee.

3. A total of 30 credits is required for the degree.

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Herbert Schroeder, Associate Professor, AFHPS@uaa.alaska.edu
Orson P. Smith, Associate Professor, AFOPS@uaa.alaska.edu
Hannele Zubeck, Assistant Professor, AFHKZ@uaa.alaska.edu
CIVIL ENGINEERING

Engineering Building (ENGR), Room 201, (907) 786-1900

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 development 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.

A degree program can include courses in Environmental Quality Engineering, Engineering Management, and other areas in addition to the Civil Engineering courses.

MASTER OF SCIENCE, CIVIL ENGINEERING

ADMISSION REQUIREMENTS

See the beginning of this chapter for admission to graduate programs. All students must hold a baccalaureate degree in an engineering discipline.

GRADUATION REQUIREMENTS

See the beginning of this chapter for General University Requirements for graduate degrees.

PROGRAM REQUIREMENTS

Complete 30 credits of course work beyond the Bachelor of Science degree. This shall include 3 credits of a civil engineering project (CE A686). All course work must be approved by the student’s graduate committee.

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Hannele Zubeck, Assistant Professor, AFHKZ@uaa.alaska.edu
The Engineering Management 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.

MASTER OF SCIENCE, ENGINEERING MANAGEMENT

MASTER OF SCIENCE, SCIENCE MANAGEMENT

ADMISSION REQUIREMENTS

Students who are working toward the Master of Science in Engineering Management must hold a Bachelor of Science or Master of Science in an engineering discipline. Students enrolling in the Master of Science in Science Management must hold a Bachelor of Science or Master of Science in a scientific field. Students are expected to be proficient in the use of computers for word processing, spreadsheet analysis, and scientific calculations. A candidate should have had on-the-job experience in engineering or science.

Students must formally apply for admission to the program. No more than 9 semester credits may be taken before applying for admission.

GRADUATION REQUIREMENTS

Students must earn a 3.00 GPA in graduate courses that are part of the program. No course included in the credits of a students program may be counted toward another degree. A student may not repeat a course that is part of their program if they have received a “C” or better in that course.

Students who have not successfully completed an engineering economy course as undergraduates or in other graduate work must include either ESM A605 or ESM A606 in their academic programs.

PROGRAM REQUIREMENTS

Note: Substitutions for one or more of the courses listed below may be permitted if similar courses are included in the student’s previous academic background. No more then 9 semester 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.

1. Complete the following Area requirements (21 credits):  
   A. Management Area (9 credits minimum):  
      ESM A601 Engineers in Organizations 3  
      Choose one course from the following: 3  
      ESM A609 Project Management (3)  
      ESM/BAA617 Technology Management (3)  
      Choose one course from the following: 3  
      ESM A608 Legal Environment for Engineering Management (3)  
      ESM A609 Project Management (3)  
      ESM A613 Management of Technical People (3)  
      ESM/BAA617 Technology Management (3)  
      ESM/BAA623 Total Quality Management (3)  
      ESM/BAA625 Marketing of Business Products and Services (3)  
   B. Fiscal Area (6 credits minimum):  
      Complete two of the following courses: 6  
      ESM A605 Engineering Economy (3)  
      ESM A606 Advanced Engineering Economy (3)  
      ESM A610 Cost Estimating (3)  
   C. Quantitative Area (6 credits minimum):  
      Choose one course from the following: 3  
      ESM A620 Statistics for ESM (3)  
      ESM A621 Operations Research (3)  
      Choose one course from the following: 3  
      ESM/BAA619 Computer Simulation of Systems (3)  
      ESM A620 Statistics for ESM (3)  
      ESM A621 Operations Research (3)  
      ESM A622 Management Decisions Under Uncertainty (3)  

2. To register for ESM A684 or ESM A699 students must have a 3.0 GPA or better in courses listed on their academic program plans:  
   A. Non-Thesis Option. Complete ESM A684 and 6 credits of electives in the student’s technical specialty and/or additional courses in A, B, or C above. Electives must have the approval of the department and may include advanced courses in computer science.  
   B. Thesis Option. Complete 6-9 credits of ESM A699 and 0-3 credits of electives in the student’s technical specialty and/or additional courses in A, B or C above. Electives must have the approval of the department and may include advanced courses in computer science.  

3. A total of 30 credits is required for the degree.

Questions:
   School of Engineering  
   Jang W. Ra, Ph.D (Chair)  
   University of Alaska Anchorage  
   907-786-1862  
   3211 Providence Drive  
   Anchorage, AK 99508  
   (907) 786-1900

FACULTY

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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. The Environmental Quality Engineering degree requires a baccalaureate degree in engineering. For students having non-engineering degrees, an interdisciplinary program is available leading to the Master of Science in Environmental Quality Science.

MASTER OF SCIENCE,
ENVIRONMENTAL QUALITY ENGINEERING

MASTER OF SCIENCE,
ENVIRONMENTAL QUALITY SCIENCE

ADMISSION REQUIREMENTS

See the beginning of this chapter for admission to graduate programs. Students who are working toward the Master of Science in Environmental Quality Engineering must have a baccalaureate degree in an engineering discipline.

GRADUATION REQUIREMENTS

See the beginning of this chapter for general university requirements for graduate degrees.

PROGRAM REQUIREMENTS

1. Complete 18 credits from the following required courses:
   - EQE A601 Aquatic Process Chemistry 3
   - EQE A602 Water Quality Management 3
   - EQE A603 Solid Waste Management (3) 3
   - or
   - EQE A609 Measure and Control of Air Pollution (3)
   - EQE A604 Environmental Quality Evaluation 3
   - EQE A605 Chemical and Physical Treatment Processes 3
   - EQE A606 Biological Treatment Processes 3

2. Students working toward the MS in EQE or EQS may choose one of the following options. All electives must be approved by the student’s graduate committee.
   - A. Thesis Option:
     - Thesis (6)
     - Electives (6)
   - B. Non-Thesis Option:
     - Special Project (3)
     - Electives (9)

3. A total of 30 credits is required for the degree.

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