

{occupational endorsements, certificates & associate degrees}

Certificates & associate



How to Earn an Occupational Endorsement, Certificate or Associate Degree	82
General University Requirements	82
Occupational Endorsements	84
Occupational Endorsement Requirements	84
Types of Certificates and Associate Degrees	84
Certificate Requirements	84
General Associate Degree Requirements	85
Associate of Arts Requirements	85
Associate of Applied Science Requirements	86
Associate of Science Requirements	87
Occupational Endorsement, Certificate and Associate Degree Programs	89

How to Earn an Occupational Endorsement, Certificate or Associate Degree

To earn a UAF degree, you must satisfy three sets of requirements: general university requirements; occupational endorsement, certificate or degree requirements; and program (major) requirements. These requirements are all described in this section of the catalog. Requirements for your major are found in the Occupational Endorsement, Certificate and Associate Degree Programs section, beginning on page 89.

If your degree program is delivered collaboratively within the UA system (e.g., information technology specialist, early childhood education, human services and rural human services), then the credits you earn from each UA institution will be counted toward fulfillment of the degree requirements and fulfillment of the minimum institutional residency requirements. Institutional residency requirements are the minimum number of credits you must earn from the campus where you earn a degree.

General University Requirements

You must earn at least 9 semester hours for an occupational endorsement, 30 semester hours for a certificate and 60 semester hours for an associate degree, including transfer credits. At least 30 percent of the program or 15 semester credits applicable to any certificate or associate degree must be earned at UAF. A minimum GPA of 2.0 is required in all work as well as in your major fields. In addition, you must earn a minimum C (2.0) grade in courses required for your associate degree major.

Unless otherwise specified by the appropriate academic unit, a course may be taken more than once toward fulfilling degree, certificate or major requirements. However, credit hours for such courses count only once toward total credits required for the degree or certificate.

Certifying that you have met all major requirements is the responsibility of your department faculty, who notify the Registrar's Office.

If you want to use correspondence study credits from a school other than UAF to satisfy degree requirements, you must have the approval of those courses by the dean of the school or college from which you will graduate; otherwise, you take the risk the courses will not be accepted.

MAJORS

You may declare a major when you are admitted to UAF as a degree-seeking undergraduate student. If you haven't chosen a major you'll be enrolled as a general studies student.

TABLE 17 **GENERAL UNIVERSITY REQUIREMENTS FOR CERTIFICATES AND ASSOCIATE DEGREES**

	Certificate	Associate Degree
Minimum number of credits required	30 credits	60 credits
Credits that must be earned at UAF (residence credit)	15 credits	15 credits
Grade point average required	2.0 cumulative and in major	2.0 cumulative and in major
Minimum grades required for major		No grade lower than C (2.0) in courses required for major
Catalog year that can be used to meet requirements	May use any catalog in effect when enrolled as a degree-seeking student, regardless of major; five-year limit on catalog year	May use any catalog in effect when enrolled as a degree-seeking student, regardless of major; five-year limit on catalog year
Second degree requirements		Only one A.A. degree may be earned; 12 credits beyond first A.A.S. degree and all requirements for the second degree must be met

Non-degree students are not eligible to declare a major or to be assigned class standing.

Students enrolled in associate degree or certificate programs who want to declare a bachelor's degree major must apply for admission to a degree program following the standard admission process for bachelor's degree programs. (See admission requirements in How to Earn a Bachelor's Degree.)

- **Changing your Major**

Undergraduate students may change majors by completing change of major form available from the Registrar's Office or online at the registrar website. A change of major becomes effective only at the beginning of a semester. A change of major form submitted after the registration period doesn't become effective until the beginning of the upcoming fall or spring semester. Students who wish to change majors from one level to another level (i.e. from an associate degree to a bachelor's degree) must contact the admissions office to apply for a level change.

CONCENTRATIONS

An area of emphasis, including the major core courses within a student's degree program, is termed a concentration.

Some programs at UAF require a concentration, others do not. A student may only earn one degree in a specific discipline once. Using different concentrations within a degree program to count as different degrees is not allowed.

SECOND ASSOCIATE DEGREE

To receive a second associate of applied science degree, you must earn at least 12 credit hours beyond the first associate degree as well as complete all requirements for the major. As long as you have completed the additional 12-hour requirement, you may be awarded two degrees in one semester.

DEGREE REQUIREMENTS AND TIME LIMITS

You may complete degree requirements in effect in any one of the previous five academic years in which you are enrolled as a degree student for a certificate or associate degree. You are considered enrolled in your degree program when you complete the appropriate degree-seeking student registration procedure. If you do not enroll for a semester or more, or if you enroll through the non-degree student registration process, you aren't considered enrolled as a degree student during that time.

EXCEPTIONS TO DEGREE REQUIREMENTS

Occasionally an undergraduate student may request an exception to an academic requirement or regulation. Requests for an academic dispensation must be approved by petition. If you submit a petition on the basis of a disability, the coordinator of disability services will be consulted. Petition forms are available at the Registrar's Office or online at the registrar website. Forms need to be returned to the Registrar's Office with required signatures of approval. The Registrar's Office will notify you once the appropriate person or committee has made a decision about whether to approve your petition. Academic petitions fall into three categories and each involve different processes:

- **Core Curriculum Petitions**

If your petition deals with baccalaureate core requirements, your advisor and the head of the department of the academic area involved must grant approval. Submit your signed petition to the Registrar's Office. It will then be forwarded to the chair of the faculty senate core curriculum review committee for consideration.

- **Major or Minor Degree Requirement Petitions**

If you want to waive or substitute courses within your major or minor requirements, you need approval signatures from your advisor and the department or program head of your major or minor area. Submit your signed petition to the Registrar's Office.

- **Petitions for Other Requirements**

If your petition deals with general university and/or specific requirements for your degree or other academic policies, you need approval from your advisor and the dean or director of the college or school in which your major is located. Submit your signed petition to the Registrar's Office. It will then be forwarded to the UAF provost for consideration.

RESIDENCE CREDIT

Residence credit is course credit earned through any unit of UAF. Formal classroom instruction, correspondence study, distance-delivered courses, individual study or research at UAF are all considered residence credit. On the other hand, transfer credit, advanced placement credit, credit for prior learning, military service credit and credit granted through nationally prepared examinations are not considered residence credit, nor are credit by examination credits earned through locally prepared tests. None of these types of credit can be applied to UAF residency requirements.

RESIDENCY REQUIREMENT

Most universities have residency requirements that call for a certain number of credits toward a degree to be earned at the degree-granting school. At UAF, the residency requirement for occupational endorsements is 30 percent of the program, and for both certificates and associate degrees it is 15 resident credits.

GRADUATION

- **Responsibility**

You are responsible for meeting all requirements for graduation.

- **Application for Graduation**

You need to formally apply for graduation. An application for graduation and non-refundable fee must be filed with the Office of the Registrar during the semester you plan to graduate. If you file your application by the published deadline, the graduation application fee is \$50. If you miss that deadline, you can submit a late application for graduation up to six weeks before the last class day of the semester or summer term. The fee for a late application is \$80. Applications for graduation filed after the late deadline are processed for graduation the following semester. Students who apply for graduation and who do not complete degree requirements by the end of the semester must reapply for graduation and repay the fee.

- **Diplomas and Commencement**

UAF issues diplomas to graduates three times a year: in September following summer sessions, in January at the end of fall semester and in May at the end of spring semester. Students who complete degree requirements for UA Board of Regents-approved academic programs during the academic year are invited to participate in the annual commencement ceremony at the end of spring semester.

Names of students receiving degrees/certificates appear in the commencement program and are released to the media unless you submit a written request not to do so to the graduation department. Graduates are responsible for ordering caps and gowns through the UAF bookstore in early spring.

- **Graduation with Honors**

Graduation with honors is a tribute that recognizes academic achievement. Honors graduates have earned a cumulative GPA of 3.5 or higher in all college work.

If a student's overall cumulative GPA is 3.5 or higher, a student graduates with the distinction of cum laude; 3.75 or higher, magna cum laude; 3.9 or higher and no grade lower than A-, summa cum laude. Your cumulative GPA for graduation with honors is based on all college work attempted at UAF, including any repeated or omitted credits due to fresh start.

For transfer students to be considered for graduation with honors, they must have:

- 3.5 cumulative GPA in all attempted UAF credits, and
- UAF residence credit of 24 semester hours for an associate degree.

Once those requirements are met, a cumulative GPA is calculated combining all college work attempted at UAF, as well as all college work attempted at any other institutions you've attended, including repeated credits and any credits that may not have been accepted for transfer to UAF. The combined cumulative GPA must also be 3.5 or higher for a transfer student to graduate with honors.

Occupational Endorsements

Occupational endorsement programs are designed to give students occupational training in a specific field. These programs are 9 – 30 credit hours and will be posted to the student's transcript upon completion and approval by the academic department. The credit hours may be applied to other undergraduate degree programs where applicable.

Occupational Endorsement Requirements

In order to earn an occupational endorsement, students must be admitted to the program and complete the requirements listed in the program section of this chapter. A minimum of 9 credits is required to earn an occupational endorsement. At least 30 percent of the program must be completed in residence at UAF. Additional residency credit requirements may be established to meet discipline or accreditation standards.

You must have a cumulative GPA of at least 2.0 in all course work. Some occupational endorsement programs require higher GPAs.

Students may elect to complete their program under the requirements of the catalog in effect at the time of formal acceptance to an occupational endorsement program or the catalog in effect at the time of graduation. If the requirements for the occupational endorsement are not met within five years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the admission and graduation requirements in effect at the time of formal acceptance. Program requirements may require completion in less than five years.

Students may earn more than one occupational endorsement by completing all requirements for each additional program. Additional occupational endorsements must differ by 3 or more credits.

- **Majors available for occupational endorsements**

Administrative Assistant
Bookkeeping Technician
Entry Level Welder
Financial Services Representative
Medical Billing
Medical Coding
Medical Office Reception
Nurse Aide
Rural Human Services
Rural Utilities Business Management

Types of Certificates and Associate Degrees

- **Certificate Programs**

Certificate programs are designed for students who are preparing for entry-level employment or upgrading in a specific occupation.

- **Associate of Science**

The A.S. degree represents the completion of a broad-based course of study with an emphasis in the sciences. This degree may serve as a stepping-stone to a science-related baccalaureate program. You may earn only one A.S. degree.

- **Associate of Arts**

The A.A. is a program of study with an interdisciplinary approach useful for transferring to future degree programs or as a starting point for a career. An emphasis created in an A.A. program can fulfill general education requirements or become the basis for a minor in many bachelor's programs. The A.A. degree is offered at all UAF campuses as well as online.

- **Associate of Applied Science**

The A.A.S. is intended for students who are preparing for entry-level employment or upgrading in a specific occupation. This degree is not intended for transfer into a four-year degree program. However, some courses within the A.A.S. degree may be accepted in a four-year bachelor's program (each course is considered on an individual basis).

Certificate Requirements

Certificate programs vary in length; however, you can usually complete them in one year. Certificates are awarded in specific occupational fields with emphasis on entering the job market. These certificates can serve as the basis for additional education and are the first step toward an associate of applied science (A.A.S.) degree. For specific major

requirements, refer to the degrees and programs section.

Only degree requirements in effect within five academic years prior to your graduation date for a certificate may be used. You are considered enrolled in your degree program when you complete the appropriate degree-seeking student registration procedure. If you do not enroll for a semester or more, or if you enroll through the non-degree process, you are not considered enrolled as a degree student during that time. If your degree program is delivered collaboratively within the UA system, credits you earn from each UA institution will be counted toward fulfillment of the degree requirements and fulfillment of the minimum institutional residency requirements.

You may enroll in any course for which you are eligible. To earn a certificate, you must formally be admitted to a certificate program and you must earn at least 30 credits, including transfer credit. Fifteen semester hours must be residence credits. You must have a cumulative GPA of at least 2.0 in all course work, as well as in your major. Programs of study for which certificates are granted must contain a recognizable body of instruction in the program-related areas of communication, computation and human relations.

Additional appropriate topics may include safety, industrial safety and environmental awareness. Instruction in the related instructional areas may be embedded within the program curriculum or taught in blocks of specialized instruction. Each approach, however, will have clearly identified content that is pertinent to the general program of study.

Note: Students planning to go on to a bachelor's degree need to work closely with their advisors and are encouraged to select courses meeting core requirements and courses designated within majors and minors. Only those courses with an "X" designator count toward the baccalaureate core.

Requirements	Credits
Communication	2 – 3

Complete one of the following:

- ENGL F111X—Introduction to Academic Writing (3)
- ABUS F170—Business English (3)
- ABUS F271—Business Communications (3)
- ENGL F211X—Academic Writing about Literature (3)
- ENGL F212—Business, Grant and Report Writing* (3)
- ENGL F213X—Academic Writing about the Social and Natural Sciences (3)
- COMM F131X—Fundamentals of Oral Communication: Group Context (3)
- COMM F141X—Fundamentals of Oral Communication: Public Context (3)
- DEVS F104—University Communications (1 – 3)
- DEVS F105—Intensive Reading Development (3)
- Other program approved discipline-based communication course or discipline-based courses with embedded communication content. (2 – 3)

Computation	2 – 3
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Complete one of the following:

- Any course at the F100-level or above in mathematical sciences (computer science, math or statistics). (3)
- ABUS F155—Business Math (3)
- DEVN F105—Intermediate Algebra (3)
- ECE F117—Math Skills for Early Childhood Educators (3)
- HLTH F116—Mathematics in Health Care (3)
- HUMS F117—Math Skills for Human Services (3)

- PRT F155—Mathematics for Technicians (3)
- TTCH F131—Mathematics for the Trades (3)
- Other program-approved discipline-based computation course or discipline-based courses with embedded computation content. (2 – 3)

Human Relations	2 – 3
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Complete one of the following:

- ANTH F100X/SOC F100X—Individual, Society and Culture (3)
- ABUS F154—Human Relations (3)
- ANL F287—Teaching Methods for Alaska Native Languages (3)
- ECE F245—Child Development (3)
- ED/PSY F245—Child Development (3)
- HLTH F106—Human Behavior in Health Care (3)
- HUMS F120—Cultural Diversity in Human Services (3)
- RHS F110—Cross-Cultural Bridging Skills (1) AND RHS F115—Issues of Personal Development (2)
- Other program approved discipline-based human relations or discipline-based courses with embedded human relations content. (2 – 3)

Major specialty	at least 21
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Electives to total	30
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* ENGL F212 does not fulfill the second half of the written communication requirement for the bachelor's degree.

Majors available for certificate programs

Accounting Technician	Information Technology Specialist
Airframe	Instrumentation Technology
Airframe and Powerplant	Medical Assistant
Automotive Technology	Medical/Dental Reception
Business Management, Applied	Mining Applications and Technologies
Community Health	Native Language Education
Construction Trades Technology	Power Generation
Culinary Arts	Powertech
Dental Assistant	Rural Human Services
Diesel/Heavy Equipment	Safety, Health and Environmental Awareness Technology
Drafting Technology	Tribal Management
Early Childhood Education Educator: Para-Professional	Veterinary Science
Health Care Reimbursement	Yup'ik Language Proficiency
High Latitude Range Management	

General Associate Degree Requirements

You must have completed at least 60 semester hours, including transfer credits, to earn a UAF associate degree.

At least 15 credits applicable to any associate degree must be UAF resident credits.

Associate of Arts Requirements

The associate of arts degree represents the completion of broad-based college study. This degree may serve as a starting point for your career or as a stepping-stone to a bachelor's program. You may earn only one A.A. degree.

The curriculum of the associate of arts degree consists of all courses required to meet the University of Alaska Fairbanks baccalaureate core, with the following exceptions:

1. The upper division writing and oral intensive courses are not required
2. In place of the upper division ethics course a humanities or social science elective may be substituted.

All credits for the A.A. degree must be at the F100-level or above with 20 credits at the F200-level or above, and be distributed as follows:

- Baccalaureate core credits.....38 – 44
- General electives.....16 – 22

Requirements	Credits
Communication	9
ENGL F111X—Introduction to Academic Writing (3) <i>ENGL F190H may be substituted.</i>	
Complete one of the following: • ENGL F211X—Academic Writing about Literature (3) • ENGL F213X—Academic Writing about the Social and Natural Sciences (3)	
Complete one of the following: • COMM F131X—Fundamentals of Oral Communication: Group Context (3) • COMM F141X—Fundamentals of Oral Communication: Public Context (3)	
Perspectives on the Human Condition (Humanities and social sciences) 18	
Complete all of the following four courses: • ANTH F100X/SOC F100X—Individual, Society and Culture (3) • ECON F100X or PS F100X—Political Economy (3) • HIST F100X—Modern World History (3) • ENGL/FL F200X—World Literature (3)	12
Complete one of the following three courses: • ART/MUS/THR F200X—Aesthetic Appreciation: Interrelationship of Art, Drama and Music (3) • HUM F201X—Unity in the Arts (3) • ANS F202X—Aesthetic Appreciation of Alaskan Native Performance (3)	3
Complete one of the following six courses: • BA F323X—Business Ethics (3) • COMM F300X—Communicating Ethics (3) • JUST F300X—Ethics and Justice (3) • NRM F303X—Environmental Ethics and Actions (3) • PS F300X—Ethics and Society (3) • PHIL F322X—Ethics (3)	3
<i>Note: Recommended for students who will earn a B.A. or B.S. degree. An additional social science elective may be substituted for the A.A. degree.</i>	
Or complete 12 credits from the above courses plus one of the following: • Two semester-length courses in a single Alaska Native language or other non-English language • Three semester-length courses (9 credits) in American Sign Language taken at the university level.	6 – 9
Mathematics	3
Complete one of the following: • MATH F103X—Concepts and Contemporary Applications of Mathematics (3) • MATH F107X—Functions for Calculus* (4) • MATH F161X—Algebra for Business and Economics (3) • STAT F200X—Elementary Probability and Statistics (3)	
<i>* No credit may be earned for more than one of MATH F107X or F161X.</i>	
Or complete one of the following: • MATH F200X—Calculus I (4) • MATH F201X—Calculus II (4) • MATH F202X—Calculus III (4) • MATH F262X—Calculus for Business and Economics (4) • MATH F272X—Calculus for Life Sciences (4)	
<i>*Or any math course having one of these as a prerequisite</i>	3 – 4

Natural Sciences	8
Complete any two (4-credit) courses.	
• ATM F101X—Weather and Climate of Alaska (4)	
• BIOL F100X—Human Biology (4)	
• BIOL F103X—Biology and Society (4)	
• BIOL F104X—Natural History (4)	
• BIOL F111X—Human Anatomy and Physiology I (4)	
• BIOL F112X—Human Anatomy and Physiology II (4)	
• BIOL F115X—Fundamentals of Biology I (4)	
• BIOL F116X—Fundamentals of Biology II (4)	
• CHEM F100X—Chemistry in Complex Systems (4)	
• CHEM F103X—Basic General Chemistry (4)	
• CHEM F104X—Beginnings in Biochemistry (4)	
• CHEM F105X—General Chemistry (4)	
• CHEM F106X—General Chemistry (4)	
• GEOG F211X—Earth Systems: Elements of Physical Geography (4)	
• GEOS F100X—Introduction to Earth Science (4)	
• GEOS F101X—The Dynamic Earth (4)	
• GEOS F112X—History of Earth and Life (4)	
• GEOS F120X—Glaciers, Earthquakes and Volcanoes (4)	
• GEOS F125X—Humans, Earth and Environment (4)	
• MSL F111X—The Oceans (4)	
• PHYS F102X—Energy and Society (4)	
• PHYS F103X—College Physics (4)	
• PHYS F104X—College Physics (4)	
• PHYS F115X—Physical Science I (4)	
• PHYS F116X—Physical Science II (4)	
• PHYS F175X—Astronomy (4)	
• PHYS F211X—General Physics (4)	
• PHYS F212X—General Physics (4)	
• PHYS F213X—Elementary Modern Physics (4)	

Library and Information Research	0 – 1
Successful completion of library skills competency test or LS F100X or F101X prior to junior standing	0 – 1

Total credits required	38 – 39
Students planning to go on to the bachelor's degree are advised to select courses meeting remaining core requirements and courses designated within bachelor's degree majors and minors.	
Minimum credits required for degree	60

Associate of Applied Science Requirements

Associate of applied science degrees are awarded in specific occupational fields with emphasis on entering the job market. This degree, usually seen as a terminal degree, can serve as the basis for additional education. For specific major requirements, see the Certificate and Associate Degree Programs section beginning on page 89.

Note: Students planning to go on to a bachelor's degree need to work closely with their advisors and are encouraged to select courses meeting core requirements and courses designated within majors and minors. Only courses with an "X" designator count towards the baccalaureate core.

All credits for the A.A.S. degree must be at the F100-level or above and be distributed as follows:

Requirements	Credits
Communication	9
Written Communication	6
ENGL F111X—Introduction to Academic Writing (3)	
Complete one of the following:	
• ABUS F271—Business Communications (3)	
• ENGL F211X—Academic Writing about Literature (3)	
• ENGL F212—Business, Grant and Report Writing* (3)	
• ENGL F213X—Academic Writing about the Social and Natural Sciences (3)	
Oral Communication	3
Complete one of the following:	
• COMM F131X—Fundamentals of Oral Communication: Group Context (3)	
• COMM F141X—Fundamentals of Oral Communication: Public Context (3)	
Computation	3
Complete one of the following:	
• Any course at the F100-level or above in mathematical sciences (computer science, math or statistics). (3)	
• ABUS F155—Business Math (3)	
• DEV M105—Intermediate Algebra (3)	
• ECE F117—Math Skills for Early Childhood Educators (3)	
• HLTH F116—Mathematics in Health Care (3)	
• HUMS F117—Math Skills for Human Services (3)	
• PRT F155—Mathematics for Technicians (3)	
• TTCH F131—Mathematics for the Trades (3)	
• other program approved discipline-based computation course or discipline-based courses with embedded computation content. (3)	
Human Relations	3
Complete one of the following:	
• ANTH F100X/SOC F100X—Individual, Society and Culture (3)	
• ABUS F154—Human Relations (3)	
• ANL F287—Teaching Methods for Alaska Native Languages (3)	
• ECE F245—Child Development (3)	
• ED/PSY F245—Childhood Development (3)	
• HUMS F120—Cultural Diversity in Human Services (3)	
• RHS F110—Cross-Cultural Bridging Skills (1) AND RHS F115—Issues of Personal Development (2)	
• HLTH F106—Human Behavior in Health Care (3)	
• other program approved discipline-based human relations course or discipline-based courses with embedded human relations content. (3)	
Major specialty	at least 30
Electives to total	60
Minimum credits required for degree	60

* ENGL F212 does not fulfill the second half of the written communication requirement for the bachelor's degree.

• Majors Available for A.A.S. Degree

- Accounting, Applied
- Apprenticeship Technologies
- Aviation Maintenance
- Business, Applied
- Community Health
- Construction Management
- Construction Trades Technology
- Culinary Arts
- Dental Assistant
- Dental Hygiene

- Early Childhood Education
- Educator: Para-Professional
- Emergency Services
- Human Services
- Information Technology Specialist
- Interdisciplinary Studies
- Medical Assistant
- Native Language Education
- Paralegal Studies
- Piloting, Professional
- Process Technology
- Renewable Resources
- Tribal Management
- Yup'ik Language Proficiency

Associate of Science Requirements

The associate of science degree represents the completion of a broad-based course of study with an emphasis in the sciences. This degree may serve as a stepping-stone to a science-related baccalaureate program. You may earn only one A.S. degree.

Requirements	Credits
Communication	9
• ENGL F111X—Introduction to Academic Writing (3)	
• ENGL F213X—Academic Writing about the Social and Natural Sciences (3)	
Complete one of the following:	
• COMM F131X—Fundamentals of Oral Communication: Group Context (3)	
• COMM F141X—Fundamentals of Oral Communication: Public Context (3)	
Humanities and Social Sciences	15
Complete all of the following:	
• ANTH F100X/SOC F100X—Individual, Society and Culture (3)	
• ECON F100X OR PS F100X—Political Economy (3)	
• HIST F100X—Modern World History (3)	
• ENGL/FL F200X—World Literature (3)	
Complete one of the following:	
• ART/MUS/THR F200X—Aesthetic Appreciation: Interrelationship of Art, Drama and Music (3)	
• HUM F201X—Unity in the Arts (3)	
• ANS F202X—Aesthetic Appreciation of Alaskan Native Performance (3)	
Or complete 12 credits from the above courses plus one of the following:	
• Two semester length courses in a single Alaska Native language or other non-English language	
• Three semester length courses (9 credits) in American Sign Language.	
Mathematics	4
• MATH F107X—Functions for Calculus (4)*	
Or complete one of the following:	
• MATH F200X—Calculus I (4)	
• MATH F272X—Calculus for Life Sciences (4)	
*No credit may be earned for more than one of MATH F107X or F161X.	
Natural Sciences	16
Complete any two (4-credit) courses.	
• ATM F101X—Weather and Climate of Alaska (4)	
• BIOL F100X—Human Biology (4)	

- BIOL F103X—Biology and Society (4)
- BIOL F104X—Natural History (4)
- BIOL F111X—Human Anatomy and Physiology I (4)
- BIOL F112X—Human Anatomy and Physiology II (4)
- BIOL F115X—Fundamentals of Biology I (4)
- BIOL F116X—Fundamentals of Biology II (4)
- CHEM F100X—Chemistry in Complex Systems (4)
- CHEM F103X—Basic General Chemistry (4)
- CHEM F104X—Beginnings in Biochemistry (4)
- CHEM F105X—General Chemistry (4)
- CHEM F106X—General Chemistry (4)
- GEOG F211X—Earth Systems: Elements of Physical Geography (4)
- GEOS F100X—Introduction to Earth Science (4)
- GEOS F101X—The Dynamic Earth (4)
- GEOS F112X—History of Earth and Life (4)
- GEOS F120X—Glaciers, Earthquakes and Volcanoes (4)
- GEOS F125X—Humans, Earth and Environment (4)
- MSL F111X—The Oceans (4)
- PHYS F102X—Energy and Society (4)
- PHYS F103X—College Physics (4)
- PHYS F104X—College Physics (4)
- PHYS F115X—Physical Science I (4)
- PHYS F116X—Physical Science II (4)
- PHYS F175X—Astronomy (4)
- PHYS F211X—General Physics (4)
- PHYS F212X—General Physics (4)
- PHYS F213X—Elementary Modern Physics (4)

Complete a one-year sequence in one natural science beyond the baccalaureate core. The total courses used to satisfy this requirement shall represent at least two different natural sciences.

Library and Information Research	0-1
<ul style="list-style-type: none"> • Successful completion of library skills competency test or LS F100X OR F101X prior to junior standing 	
Concentration specialty	at least 15
Minimum credits required for degree	60

Occupational Endorsement, Certificate and Associate Degree Programs

ACCOUNTING, APPLIED

College of Rural and Community Development
Business Technologies Division
Bristol Bay Campus 907-842-5109
Chukchi Campus 907-442-3400
Interior-Aleutians Campus 907-474-5439
Kuskokwim Campus 907-543-4500
Northwest Campus 907-443-2201
Tanana Valley Campus 907-455-2800
<http://www.tvc.uaf.edu/programs/abus/accounting.html>

A.A.S. Degree

Minimum Requirements for A.A.S. Degree: 60 credits

The applied accounting program prepares students for entry-level accounting positions in payables and/or receivables, bookkeeping and payroll accounting. This program covers financial decision-making tools for the small business operator as well.

Courses in the applied accounting program address the concerns of modern business people and provide the training necessary to enhance business success. The applied accounting program prepares a student to enter the UAF School of Management's B.B.A. program in accounting in order to earn the 150 credits required to take the CPA exam in Alaska.

Students entering the A.A.S. program are expected to have basic computer skills equivalent to CIOS F150. Classes are scheduled in the evening to accommodate working students. Microcomputer and office technology labs are available for "hands on" training.

Major — A.A.S. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements. (See page 86. As part of the A.A.S. degree requirements, complete ABUS F154 for the human relations requirement. ABUS F155 is the recommended computation course.)
3. Complete the following program (major) requirements:

ABUS F101—Principles of Accounting I.....	3
ABUS F141—Payroll Accounting	3
ABUS F142—Office Accounting.....	3
ABUS F175—Customer Service (3) or ABUS F179—Fundamentals of Supervision (3).....	3
ABUS F201—Principles of Accounting II.....	3
ABUS F202—Principles of Accounting III	3
ABUS F210—Income Tax	3
ABUS F221—Microcomputer Accounting (3) or ABUS F220—Microcomputer Accounting: QuickBooks (3).....	3
ABUS F233—Financial Management	3
ABUS F235—Fund Accounting for Non-Profits (3) or ABUS F160—Principles of Banking (3)	3
BA F151—Introduction to Business	3
CIOS F135—Microcomputer Spreadsheets (3) or CIOS F240—Microcomputer Databases (3)	3
Department recommended electives.....	9
4. Minimum credits required60

* Student must earn a C grade or better in each course.

** Student with "Microsoft Office" competency may substitute a more advanced CIOS course which fulfills certificate or degree requirements in lieu of CIOS F150.

Minor

1. Complete the following:

ABUS F101—Principles of Accounting I.....	3
ABUS F201—Principles of Accounting II (3) or ABUS F235—Fund Accounting for Non-Profits (3)	3
ABUS F210—Income Tax	3
ABUS F220—Microcomputer Accounting: QuickBooks (3) or ABUS F221—Microcomputer Accounting (3)	3
BA F151—Introduction to Business	3
CIOS F135—Microcomputer Spreadsheets (3) or CIOS F240—Microcomputer Databases (3)	3
2. Minimum credits required18

ACCOUNTING TECHNICIAN

College of Rural and Community Development
Business Technologies Division
Bristol Bay Campus 907-842-5109
Chukchi Campus 907-442-3400
Interior-Aleutians Campus 907-474-5439
Kuskokwim Campus 907-543-4500
Northwest Campus 907-443-2201
Tanana Valley Campus 907-455-2800
www.tvc.uaf.edu/programs/abus/accounting.html

Certificate

Minimum Requirements for Certificate: 30 credits

The accounting technician program prepares students for entry-level accounting positions in payables and/or receivables, bookkeeping and payroll accounting. This program covers financial decision-making tools for the small business operator as well.

Courses in this program address the concerns of modern business people and provide the training necessary to enhance business success. The accounting technician certificate represents the first year of training toward the applied accounting A.A.S. degree. Students admitted into the accounting B.B.A. degree program may apply their earned certificate credits toward the state of Alaska's 150 hour requirement for a CPA license.

Students entering the certificate program are expected to have basic computer skills equivalent to CIOS F150. Classes are scheduled in the evening to accommodate working students. Microcomputer and office technology labs are available for "hands on" training.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the following certificate requirements:
 - a. Complete 3 credits from one of the following communication courses:

ABUS F170—Business English (3)
or ABUS F271—Business Communications (3)
or ENGL F111X—Introduction to Academic Writing (3)
or ENGL F212—Business, Grant, and Report Writing (3)....3

b. Complete 3 credits from one of the following computation courses:	
ABUS F155—Business Math (3)	
or MATH at the 100-level or above.....	3
c. Complete 3 credits from the following human relations course:	
ABUS F154—Human Relations	3
3. Complete the following program (major) requirements.	
ABUS F101—Principles of Accounting I	3
ABUS F141—Payroll Accounting	3
ABUS F142—Office Accounting I	3
ABUS F201—Principles of Accounting II (3)	
or ABUS F235—Fund Accounting for Non-Profits (3)	3
ABUS F210—Income Tax	3
ABUS F220—Microcomputer Accounting: QuickBooks (3)	
or ABUS F221—Microcomputer Accounting (3)	3
BA F151—Introduction to Business	3
4. Minimum credits required.....	30

ADMINISTRATIVE ASSISTANT

College of Rural and Community Development
Business Technologies Division
Tanana Valley Campus
907-455-2809
www.tvc.uaf.edu/programs/aaa/

Occupational Endorsement

Minimum Requirements for Occupational Endorsement: 18 credits

The administrative assistant occupational endorsement may be earned in one semester and represents a large portion of the course work required for the applied business management certificate. Students must complete all courses with a grade of 'C' or better and satisfactorily complete a two-week practicum at the culmination of training in order to earn the endorsement. This program is open to those who have completed the university application process and are at an appropriate English level for ABUS F170 Business English (as shown by COMPASS scores).

Occupational Endorsement Program

1. Complete the general university requirements (page 82).
 2. Complete the occupational endorsement requirements (page 84).
 3. Complete the following courses:
 ABUS F102A—Keyboarding: Touch Typing (1)
 or ABUS F102C—Keyboarding: Document Formatting.....1
 ABUS F154—Human Relations 3 |
 - ABUS F170—Business English 3 |
 - ABUS F182—Office Procedures..... 3 |
 - ABUS F183—Advanced Job Readiness Skills 2 |
 - ABUS F199—Practicum in Applied Business 1 |
 - CIOS F133—Microcomputer Presentation Software.....1
 - CIOS F150—Computer Business Applications 3 |
 - CIOS F231—Intro to Desktop Publishing 1 |
4. Minimum credits required.....18

* Student must earn a C grade or better in each course.

ALLIED HEALTH

College of Rural and Community Development
Rural Health Programs
www.uaf.edu/crcdhealth/
907-455-2050
Tanana Valley Campus
907-455-2822
www.tvc.uaf.edu/programs/health/

Occupational Endorsement; Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 30 – 38 credits; for Degree: 60 – 69 credits

The occupational endorsement, certificates, degrees and occupational training programs in allied health provide students with the knowledge and technical skills for employment in health care. Coursework in phlebotomy is available, as are occupational endorsements in medical billing, medical coding, and medical office reception. Certificates offered include medical assistant, dental assistant, health care reimbursement and medical/dental reception. A.A.S. degrees offered include dental assistant and medical assistant. A.A.S. degrees in nursing and radiologic technology are offered in Fairbanks at the Tanana Valley Campus through the University of Alaska Anchorage.

Special admission, licensing, or certification requirements may apply to students in this program. Applicants should familiarize themselves with these and speak with a faculty advisor if they have any questions or concerns.

Dental Assistant

The dental assistant certificate and A.A.S. degree program prepares students to become skilled members of the dental health care team. The duties of the dental assistant are among the most comprehensive and varied in the dental office. Upon completion of the course work, students are eligible to take the Dental Assisting National Board (DANB) examination components for radiology and infection control. After 600 hours or six months employment in a dental office, they will be eligible to take the general chairside component of the examination and become Certified Dental Assistants. Prerequisites are graduation from high school or equivalent (GED) and completion of a dental assisting application form.

Health Care Reimbursement

The health care reimbursement certificate program prepares students for employment as medical billers and coders in medical offices, clinics, hospitals and other medical facilities. Students in the program learn analysis of medical records and the assigning of codes for indexing diagnoses and procedures to provide information for reimbursement purposes. The successful completion of this certificate prepares the student for the national certification exam through the American Academy of Professional Coders. The occupational endorsements in medical billing and medical coding are part of the Health Care Reimbursement Certificate.

Medical Assistant, Medical/Dental Reception

The medical assistant certificate and A.A.S. degree prepares students for employment in ambulatory care settings. Students receive education in the theory and skills for both office work and clinical care. Prerequisites for the program include a high school diploma or GED and completion of the medical assistant application. The UAF Tanana Valley Campus medical assistant certificate is accredited by the Commission on Accreditation of Allied Health Education Programs upon recommendation of the Medical Assisting Education Review Board (MAERB), CAAHEP, 353 East Wacker Drive, Chicago, IL 60601, 312-553-9355. The medical assistant certificate incorporates both the medical office reception occupational endorsement and the medical/dental reception certificate.

Nurse Aide

The nurse aide occupational endorsement provides education and training to students in theory and basic nursing skills necessary to become efficient and productive health care team members. Students who successfully complete the program will be prepared to sit for the state of Alaska nurse aide examination for certification. This program is open to those who can document a high school diploma or GED and 10th grade reading level by exam or have the instructor's permission. Students must also be in good physical condition (capable of repeatedly lifting 50 pounds) and have the following immunizations: Hepatitis B full series, two MMRs, chickenpox vaccine (or titer to prove immunity to MMR/chickenpox) and have a negative PPD for tuberculosis within the past year.

Phlebotomist

Training is also available in phlebotomy. A student who completes the two-course sequence in phlebotomy may sit for national certification through the American Society for Clinical Pathology to become a certified Phlebotomy Technician. Students wishing to enroll in phlebotomy must document current immunizations for measles, mumps, rubella, tetanus and hepatitis A, show a positive antibody titer for chickenpox and hepatitis B, and have received a negative PPD for tuberculosis within the past year.

Registered Nurse

The A.A.S. degree in nursing is offered by the University of Alaska Anchorage at the Tanana Valley Campus in cooperation with the Allied Health department. Graduates of the nursing program are prepared 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. Graduates of this A.A.S. degree are eligible to take the NCLEX examination that grants professional licensure to practice nursing as a Registered Nurse. Additional information is available online at <http://nursing.uaa.alaska.edu>.

Radiologic Technologist

The A.A.S. degree in radiologic technology is offered by the University of Alaska Anchorage in cooperation with the Tanana Valley Campus and Fairbanks Memorial Hospital. Course work for the degree is delivered through a combination of the traditional classroom setting, distance delivery and clinical experience. Upon completion of the program, students may apply to the American Registry of Radiologic Technologists (ARRT) for national certification. Additional information is available online at www.uaa.alaska.edu/ctc/alliedhealth/radtech/.

Information on any of the Allied Health programs is available from the Allied Health Division at Tanana Valley Campus, PO Box 758040, Fairbanks, AK 99775; by calling 907-455-2822; by e-mail at fyhealth@uaf.edu; or at www.tvc.uaf.edu/health/.

Medical Billing — Occupational Endorsement Program

1. Complete the general university requirements (page 82).
2. Complete the occupational endorsement requirements (page 84).
3. Complete the following:
CIOS F150—Computer Business Applications (3)
or documentation of computer skills and approved elective.....3
HLTH F100—Medical Terminology3
HLTH F236—Outpatient Health Care Reimbursement3
HLTH F237—Inpatient Health Care Reimbursement3
4. Minimum number of credits.....12
** Student must earn a C grade or better in each course.*

Medical Coding — Occupational Endorsement Program

1. Complete the general university requirements (page 82).
2. Complete the occupational endorsement requirements (page 84).
3. Complete the following:
CIOS F150—Computer Business Applications (3)
or documentation of computer skills and approved elective.....3
HLTH F100—Medical Terminology3
HLTH F208—Human Diseases3
HLTH F235—Medical Coding**4
4. Minimum number of credits.....13
** Student must earn a C grade or better in each course.
** Must complete HLTH 235 with a B grade or better.*

Medical Office Reception — Occupational Endorsement Program

1. Complete the general university requirements (page 82).
2. Complete the occupational endorsement requirements (page 84).
3. Complete the following:
CIOS F150—Computer Business Applications (3)
or documentation of computer skills and approved elective.....3
HLTH F100—Medical Terminology3
HLTH F110—Professional Skills in the Workplace2
HLTH F118—Medical Law & Ethics2
HLTH F132—Administrative Procedures I2
4. Minimum number of credits.....12
** Student must earn a C grade or better in each course.*

Nurse Aide — Occupational Endorsement Program

1. Complete the general university requirements (page 82).
2. Complete the occupational endorsement requirements (page 84).
3. Complete the following courses:
HLTH F107—Nurse Aide Training (9)
or HLTH F111 Personal Care Attendant Training (4)
and HLTH F113—Personal Care Attendant to Nursing Assistant Bridge (5)9
4. Minimum credits required9

Dental Assistant — Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements. (See page 84. As part of the certificate requirements, the communication, computation and human relations content is embedded in the major required courses for this program.)
3. Complete the following program (major) requirements:
DA F132—Administrative Procedures for the Dental Assistant2
DA F150—Dental Radiography4
DA F151—Dental Infection Control2
DA F152—Dental Materials and Applications4
DA F153—Anatomy for Dental Assistants3
DA F251—Clinical Chairside I for Dental Assistants6
DA F252—Clinical Chairside II for Dental Assistants6
DA F254—Dental Assistant Practicum4
HLTH F110—Professional Skills for the Workplace2
HLTH F122—First Aid and CPR1
4. Minimum credits required34
** Student must earn a C grade or better in each course.*

Health Care Reimbursement — Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements. (See page 84. As part of the certificate requirements, the communication and human relations content is embedded in the major required courses for this program.)

3. Complete the following computation requirement:
HLTH F116—Mathematics in Health Care 3
4. Complete the following:
ABUS F271—Business Communications 3
CIOS F150—Computer Business Applications 3
HLTH F100—Medical Terminology 3
HLTH F110—Professional Skills for the Workplace 2
HLTH F132—Administrative Procedures I 2
HLTH F208—Human Diseases 3
HLTH F234—Administrative Procedures II 4
HLTH F235—Medical Coding 4
HLTH F236—Outpatient Health Care Reimbursement 3
5. Minimum credits required 30
** Student must earn a C grade or better in each course.*

Medical Assistant — Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements (page 84).
 - a. Complete ENGL F111X for the communications requirement.
 - b. Complete 3 credits from one of the following computation courses:
HLTH F116—Mathematics in Health Care 3
DEVM F105—Intermediate Algebra 3
MATH at the 100-level or higher 3
 - c. Complete 3 credits from one of the following human relations courses:
HLTH F106—Human Behavior in Health Care 3
ABUS F154—Human Relations 3
SOC F100X—Individual, Society and Culture 3
PSY F101—Introduction to Psychology 3
3. Complete the following program (major) requirements:
HLTH F100—Medical Terminology 3
HLTH F110—Professional Skills in the Workplace 2
HLTH F114—Fundamentals of Anatomy and Physiology (4)
or BIOL F100X—Human Biology (4) 4
HLTH F118—Medical Law and Ethics 2
HLTH F122—First Aid and CPR 1
or current First Aid/CPR card
HLTH F132—Administrative Procedures I 2
HLTH F142—Clinical Procedures I 4
HLTH F234—Administrative Procedures II 4
HLTH F236—Healthcare Reimbursement 3
HLTH F244—Clinical Procedures II 4
HLTH F268—Medical Assisting Practicum (4)
or HLTH F261—Medical/Dental Office Reception Practicum (2)
and HLTH F267—Medical Assisting Externship Completion (2 – 4) 4
4. Minimum credits required 38 – 42
** Student must earn a C grade or better in each course.*

Medical/Dental Reception — Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the following certificate requirements:
a. Complete 3 credits from one of the following communication courses:
ABUS F271—Business Communications (3)
or ENGL F111X—Introduction to Academic Writing (3) 3
b. Complete 3 credits from one of the following computation courses:
MATH at the F100-level or above (3)
or HLTH F116—Mathematics in Health Care (3) 3
c. Complete the following human relations course:
HLTH F106—Human Behavior in Health Care 3

3. Complete the following:
CIOS F150—Computer Business Applications (3)
or CIOS elective at the F200-level (3) 3
HLTH F100—Medical Terminology 3
HLTH F110—Professional Skills for the Workplace 2
HLTH F118—Medical Law and Ethics 2
HLTH F122—First Aid and CPR 1
HLTH F132—Administrative Procedures I 2
HLTH F234—Administrative Procedures II 4
HLTH F236—Healthcare Reimbursement 3
HLTH F261—Medical/Dental Office Reception Practicum 2
Approved HLTH, CIOS, ABUS, HUMS, DEVS or COMM elective 2

4. Minimum credits required 30 – 33
** Student must earn a C grade or better in each course.*

Dental Assistant — A.A.S. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements (page 86).
3. Complete the following program (major) requirements:
DA F132—Administrative Procedures for the Dental Assistant 2
DA F150—Dental Radiography 4
DA F151—Dental Infection Control 2
DA F152—Dental Materials and Applications 4
DA F153—Anatomy for Dental Assistants 3
DA F251—Clinical Chairside I for Dental Assistants 6
DA F252—Clinical Chairside II for Dental Assistants 6
DA F253—Clinical Chairside III for Dental Assistants 3
DA F254—Dental Assistant Practicum 4
HLTH F110—Professional Skills for the Workplace 2
HLTH F114—Fundamentals of Anatomy and Physiology 4
HLTH F122—First Aid and CPR 1
or first aid/CPR card
HLTH F203—Science of Nutrition 3
HLTH F247—Introduction to Pharmacology 2

4. Minimum credits required 61
** Student must earn a C grade or better in each course.*

Medical Assistant — A.A.S. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements* (page 86).
3. Complete the following program (major) requirements:
CIOS F150—Computer Business Applications (3)
or appropriate CIOS elective (3) 3
HLTH F100—Medical Terminology 3
HLTH F110—Professional Skills for the Workplace 2
HLTH F114—Fundamentals of Anatomy and Physiology (4)
or BIOL F100X—Human Biology (4) 4
HLTH F118—Medical Law and Ethics 2
HLTH F122—First Aid and CPR 1
or current First Aid/CPR card
HLTH F132—Administrative Procedures I 2
HLTH F142—Clinical Procedures I 4
HLTH F208—Human Diseases 3
HLTH F234—Administrative Procedures II 4
HLTH F236—Healthcare Reimbursement 3
HLTH F244—Clinical Procedures II 4
HLTH F247—Introduction to Pharmacology 2
HLTH F268—Medical Assisting Practicum (4)
or HLTH F261—Medical/Dental Office Reception Practicum (2)
and HLTH F267—Medical Assisting Externship Completion (2 – 4) 4
Approved HLTH, CIOS, ABUS, HUMS, DEVS or COMM elective 3 – 7

4. Minimum credits required	60
* Student must earn a C grade or better in each course.	

APPRENTICESHIP TECHNOLOGIES

College of Rural and Community Development
 Bristol Bay Campus 907-842-5109
 Chukchi Campus 907-442-3400
 Interior-Aleutians Campus 907-474-5439
 Kuskokwim Campus 907-543-4500
 Northwest Campus 907-443-2201
 Tanana Valley Campus 907-455-2800
www.uaf.edu/rural/

A.A.S. Degree

Minimum Requirements for Degree: 60 credits

The A.A.S. degree in apprenticeship technologies provides career and technical training and supporting course work to prepare students for the rapidly changing global workplace. The program also helps Alaska industries by training workers who can meet increasing certification requirements which reflect complex business and industrial standards.

The apprenticeship technologies program is a 60-credit A.A.S. degree delivered collaboratively through UAA, UAF and UAS. The practical integration of general course work and training for vocational-technical trades specifically reflects the commitment of the university to high-quality instruction and public service. Individuals earning this degree must complete a formal apprenticeship program and hold journey-level status in trades or occupations (including occupational license or occupational certificate) recognized by the U.S. Department of Labor, Office of Apprenticeship and Training.

Students declaring a major in apprenticeship technologies must present documentation of acceptance into an apprenticeship program meeting the requirements of the U.S. Department of Labor, Bureau of Apprenticeship and Training. The appropriate College of Rural and Community Development campus will review the documentation and may recommend up to 38 credits of course work following completion of all courses listed below. Students are encouraged to begin the required courses while completing the apprenticeship program to expand the quality and breadth of the program. Students who complete this program may be eligible to enroll in the B.S. technology degree program at UAA or the B.T. degree program at UAF.

Major — A.A.S. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements. (See page 86. As part of the A.A.S. degree requirements, complete:

ENGL F111X—Introduction to Academic Writing (3)	3
ENGL F211X—Academic Writing About Literature (3)	3
COMM F131X—Fundamentals of Oral Communication: Group Context.....	3
or COMM F141X—Fundamentals of Oral Communication: Public Context	3
STAT F200X—Elementary Probability and Statistics	3
or DEV M F105—Intermediate Algebra	3
or any MATH course at the 100-level or higher	3
ABUS F154 or ANTH F100X or SOC F100X.....	3
3. Complete 6 credits of safety, computer, business, technical, or other advisor-approved courses linked to an identified education or career pathway.....6
4. Approved apprenticeship program transfer of credit maximum.....38

5. Electives to complete 60 credits as needed.	
6. Minimum credits required	60

ASSOCIATE OF ARTS

College of Rural and Community Development
 Bristol Bay Campus 907-842-5109
 Chukchi Campus 907-442-3400
 Interior-Aleutians Campus 907-474-5439
 Kuskokwim Campus 907-543-4500
 Northwest Campus 907-443-2201
 Tanana Valley Campus 907-455-2800
www.tvc.uaf.edu/programs/aa/

A.A. Degree

Minimum Requirements for Degree: 60 credits

The associate of arts degree is offered at all UAF campuses. The degree offers a rigorous program of study for the serious student who eventually intends to transfer to a bachelor's degree program. The degree may serve as a starting point for a career or as a stepping-stone to a bachelor's program. You may only earn one A.A. degree.

Major — A.A. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.A. degree requirements (page 85).
3. Minimum credits required60

ASSOCIATE OF SCIENCE

College of Rural and Community Development
 Interior-Aleutians Campus
 907-474-5439
www.uaf.edu/iac/

A.S. Degree

Minimum Requirements for Degree: 60 credits

The associate of science degree represents the completion of a broad-based course of study with an emphasis in the sciences. This degree may serve as a stepping-stone to a science-related baccalaureate program. You may earn only one A.S. degree.

Major — A.S. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.S. degree requirements (page 87).
3. Complete concentration area of at least 15 credits from a science-focused area such as veterinary science, general science, high latitude range management or from a bachelor of science degree area as determined in coordination with your advisor.15
4. Minimum credits required60

* All credits for the A.S. degree must be at the 100-level or above with 20 credits at the 200-level or above. Variation in credits depends on the concentration area.

AUTOMOTIVE TECHNOLOGY

College of Rural and Community Development
Tanana Valley Campus
907-455-2809
www.tvc.uaf.edu/programs/Automotive/

Certificate

Minimum Requirements for Certificate: 34 credits

The automotive technology program provides students with the education and training needed to become an entry level automotive technician. The automotive service industry is constantly changing as cars become more complicated. Highly trained technicians are needed to understand, diagnose and repair modern automobiles.

The program emphasizes hands-on training and in-class experience as students perform preventive maintenance inspections, determine causes of equipment problems and make necessary repairs and adjustments to the complex systems that make up today's cars. The certificate training qualifies students for entry-level positions within the automotive service and repair industry in the areas of electricity/electronics, brakes, suspension and alignment, and engine performance.

Successful graduates from the automotive technology program go on to careers in dealerships, independent shops, service/IM stations, fleet repair facilities and aviation ground support. Salaries vary depending on job placement and the student's skill level.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements. (See page 84. As part of the certificate requirements, the communication, computation and human relations content are embedded in the major required courses for this program).
3. Complete the following program (major) requirements:

AUTO F102—Introduction to Automotive Technology.....	3
AUTO F110—Basic Electrical Systems.....	3
AUTO F122—Engine Theory and Diagnosis	3
AUTO F131—Automotive Electrical II	3
AUTO F150—Brake Systems.....	4
AUTO F162—Automotive Practicum I	4
AUTO F190—Suspension Alignment.....	4
AUTO F202—Auto Fuel and Emissions Systems.....	4
AUTO F222—Automotive Engine Performance	3
AUTO F227—Automotive Electrical III.....	3
4. Minimum credits required.....34

* Student must earn a C grade or better in each course.

(FAA) mechanic's certificate with both airframe and powerplant ratings in as little as one year. The aviation maintenance program covers many subject areas, but it places special emphasis on those skills most sought after in the Alaska job market. Through classroom and hands-on laboratory instruction, this intensive curriculum prepares students for entry into the aviation field. Graduates who pass the FAA examinations for the airframe and powerplant ratings are qualified for entry-level positions in the maintenance, repair, overhaul and modification of aircraft.

Students interested in qualifying for an FAA airframe mechanic's certificate may choose to earn only the airframe certificate, and those who wish to qualify for an FAA powerplant mechanic's certificate may choose to earn only the powerplant certificate.

Admission to the airframe and powerplant programs is at the discretion of the program faculty and requires an interview with the faculty advisor. The program normally starts around the first of September of each year. Applicants may start at other times if they meet experience and educational qualifications that meet departmental approval.

Airframe and Powerplant — Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements. (See page 84. As part of the certificate requirements, the communication, computation and human relations content is embedded in the major required courses for this program.)
3. Complete the following general requirements:

AFPM F145—Basic Mathematics	1
AFPM F146—Basic Electricity	2
AFPM F147—Physics for Mechanics	0.5
AFPM F148—Aircraft Drawing	1
AFPM F149—Fluid Lines and Fitting	0.5
AFPM F150—Materials and Processes	2
AFPM F151—Cleaning and Corrosion Control	1
AFPM F152—Federal Aviation Regulations.....	1
AFPM F153—Weight and Balance	1
AFPM F154—Ground Operations and Servicing	0.5
4. Complete the following airframe structures requirements:

AFPM F261—Non Metallic Structures.....	1
AFPM F262—Aircraft Coverings.....	1
AFPM F263—Aircraft Finishes	0.5
AFPM F264—Sheet Metal Structures	3
AFPM F265—Aircraft Welding	1.5
AFPM F266—Assembly and Rigging	1.5
AFPM F267—Airframe Inspections	0.5
AFPM F270—Airframe Testing	0.5
5. Complete the following airframe systems and components requirements:

AFPM F230—Aircraft Electrical Systems	2.5
AFPM F253—Transport Category Aircraft	1
AFPM F254—Ice and Rain Control Systems	0.5
AFPM F256—Communications and Navigation Systems	0.5
AFPM F258—Cabin Atmosphere Control Systems.....	1
AFPM F259—Hydraulic and Pneumatic Systems	1.5
AFPM F260—Aircraft Landing Gear Systems	1.5
6. Complete the following powerplant theory and maintenance requirements:

AFPM F235—Aircraft Reciprocating Engines	4.5
AFPM F240—Turbine Engines.....	2
AFPM F271—Powerplant Inspections	0.5
AFPM F272—Powerplant Testing	0.5
7. Complete the following powerplant systems and components requirements:

AFPM F231—Powerplant Electrical Systems.....	1.5
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AVIATION MAINTENANCE

College of Rural and Community Development
Tanana Valley Campus
907-455-2809
www.tvc.uaf.edu/programs/amt/

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 31 – 49 credits; for Degree: 64 credits

Aviation maintenance offers an A.A.S. degree and certificates in three areas: airframe, powerplant, or airframe and powerplant.

Students who receive a certificate in airframe and powerplant may elect to complete the A.A.S. degree in aviation maintenance to enhance their employability.

Students in the airframe and powerplant certificate program may complete requirements for the Federal Aviation Administration

AFPM F244—Lubrication Systems	1.5
AFPM F245—Ignition Systems	2
AFPM F246—Fuel Metering Systems	2
AFPM F248—Induction Systems	0.5
AFPM F249—Powerplant Cooling Systems	0.5
AFPM F250—Powerplant Exhaust Systems.....	0.5
AFPM F252—Propellers.....	2
8. Complete the following combined systems and components requirements:	
AFPM F251—Fuel Systems.....	1.5
AFPM F255—Fire Protection Systems	0.5
AFPM F257—Instrument Systems	0.5
9. Minimum credits required	49

Airframe — Certificate Program

1. Complete the general university requirements (page 82).	
2. Complete the certificate requirements. (See page 84. As part of the certificate requirements, the communication, computation and human relations content is embedded in the major required courses for this program.)	
3. Complete the following general requirements:	
AFPM F145—Basic Mathematics	1
AFPM F146—Basic Electricity	2
AFPM F147—Physics for Mechanics	0.5
AFPM F148—Aircraft Drawing	1
AFPM F149—Fluid Lines and Fitting.....	0.5
AFPM F150—Materials and Processes	2
AFPM F151—Cleaning and Corrosion Control	1
AFPM F152—Federal Aviation Regulations.....	1
AFPM F153—Weight and Balance	1
AFPM F154—Ground Operations and Servicing	0.5
4. Complete the following airframe structures requirements:	
AFPM F261—Non Metallic Structures.....	1
AFPM F262—Aircraft Coverings.....	1
AFPM F263—Aircraft Finishes	0.5
AFPM F264—Sheet Metal Structures	3
AFPM F265—Aircraft Welding	1.5
AFPM F266—Assembly and Rigging	1.5
AFPM F267—Airframe Inspections	0.5
AFPM F270—Airframe Testing	0.5
5. Complete the following airframe systems and components requirements:	
AFPM F230—Aircraft Electrical Systems	2.5
AFPM F253—Transport Category Aircraft.....	1
AFPM F254—Ice and Rain Control Systems.....	0.5
AFPM F256—Communications and Navigation Systems.....	0.5
AFPM F258—Cabin Atmosphere Control Systems.....	1
AFPM F259—Hydraulic and Pneumatic Systems	1.5
AFPM F260—Aircraft Landing Gear Systems	1.5
6. Complete the following combined systems and components requirements:	
AFPM F251—Fuel Systems.....	1.5
AFPM F255—Fire Protection Systems	0.5
AFPM F257—Instrument Systems	0.5
7. Minimum credits required	31

Powerplant — Certificate Program

1. Complete the general university requirements (page 82).	
2. Complete the certificate requirements. (See page 84. As part of the certificate requirements, the communication, computation and human relations content is embedded in the major required courses for this program.)	

3. Complete the following general requirements:	
AFPM F145—Basic Mathematics	1
AFPM F146—Basic Electricity	2
AFPM F147—Physics for Mechanics	0.5
AFPM F148—Aircraft Drawing	1
AFPM F149—Fluid Lines and Fitting	0.5
AFPM F150—Materials and Processes	2
AFPM F151—Cleaning and Corrosion Control	1
AFPM F152—Federal Aviation Regulations.....	1
AFPM F153—Weight and Balance	1
AFPM F154—Ground Operations and Servicing	0.5
4. Complete the following powerplant theory and maintenance requirements:	
AFPM F235—Aircraft Reciprocating Engines	4.5
AFPM F240—Turbine Engines.....	2
AFPM F271—Powerplant Inspections	0.5
AFPM F272—Powerplant Testing	0.5
5. Complete the following powerplant and systems components requirements:	
AFPM F231—Powerplant Electrical Systems.....	1.5
AFPM F244—Lubrication Systems	1.5
AFPM F245—Ignition Systems	2
AFPM F246—Fuel Metering Systems	2
AFPM F248—Induction Systems	0.5
AFPM F249—Powerplant Cooling Systems	0.5
AFPM F250—Powerplant Exhaust Systems.....	0.5
AFPM F252—Propellers.....	2
6. Complete the following combined systems and components requirements:	
AFPM F251—Fuel Systems.....	1.5
AFPM F255—Fire Protection Systems	0.5
AFPM F257—Instrument Systems	0.5
7. Minimum credits required	31

Note: This is a one-year program, usually starting at the beginning of July. Entry at other times is allowed only with departmental approval. A personal background check and drug test will be required prior to acceptance into the airframe and powerplant, airframe or powerplant certificate programs.

Aviation Maintenance — A.A.S. Degree

1. Complete the general university requirements (page 82).	
2. Complete the A.A.S. degree requirements (page 86).	
3. Complete the requirements for the airframe and powerplant certificate	49
4. Minimum credits required	64

* Student must earn a C grade or better in each course.

BOOKKEEPING TECHNICIAN

College of Rural and Community Development
Tanana Valley Campus
907-455-2809
www.tvc.uaf.edu/programs/abus/

Occupational Endorsement

Minimum Requirements for Occupational Endorsement: 15 credits

The bookkeeping technician occupational endorsement provides students with the education and training to qualify for bookkeeper positions in both small and large businesses. The occupational endorsement may be earned in one semester and represents one-half of the credits required for the accounting technician certificate. This program is open to students with a high school diploma or GED.

Occupational Endorsement Program

1. Complete the general university requirements (page 82).
 2. Complete the occupational endorsement requirements (page 84).
 3. Complete the following courses:
 ABUS F101—Principles of Accounting I.....3
 ABUS F141—Payroll Accounting3
 ABUS F220—QuickBooks Accounting3
 ABUS F201—Principles of Accounting II.....3
 ABUS F142—Office Accounting3
 4. Minimum credits required15
- * Student must earn a C grade or better in each course.

BUSINESS, APPLIED

College of Rural and Community Development
 Business Technologies Division
 Bristol Bay Campus 907-842-5109
 Chukchi Campus 907-442-3400
 Interior-Aleutians Campus 907-474-5439
 Kuskokwim Campus 907-543-4500
 Northwest Campus 907-443-2201
 Tanana Valley Campus 907-455-2800
www.tvc.uaf.edu/abus/

A.A.S. Degree

Minimum Requirements for Degree: 60 credits

Planning and preparation are the keys to success in business. The A.A.S. degree in applied business provides students with the skills and training needed to run a business effectively. The program covers basic knowledge and skills, emerging technologies, advanced procedures and interpersonal skills. Courses teach the principles of accounting, management, human relations, math, communications, customer service, computers, law, finance and logic. Instructors provide a practical understanding of the marketplace — not just a textbook view of business.

Potential careers for graduates include entrepreneurship and entry-level positions in business management, tourism, human resources and public administration.

Administrative Assistant Academy

The Administrative Assistant Academy is an intensive 12 weeks of full-time vocational training designed to prepare students for administrative support careers. Students may earn up to 18 credits through their academy studies. Credits earned will also apply toward requirements for an applied business degree or certificate. Academy graduates are assisted with job placement upon satisfactory completion of training.

Areas of study include office procedures, business math and office accounting, document processing, business English, human relations, customer service, computer office applications, desktop publishing and professional development. All academy students participate in job readiness training, resume and job application preparation, interview skills, job search process and work internships.

Please contact the applied business program for additional information regarding the Administrative Assistant Academy.

Major — A.A.S. Degree

Concentrations: **Administrative Management, Applied Management, Computer Applications, Entrepreneurship, Finance, Health Care Management, Human Resources, International Business, Management, Marketing, Public Management, Recreation and Guiding Management, and Tourism.**

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements. (See page 86. As part of the A.A.S. degree requirements, complete ABUS F154 for the human relations requirement.)
3. Complete the following general business requirements:
 ABUS F101—Principles of Accounting I.....3
 ABUS F175—Customer Service3
 ABUS F179—Fundamentals of Supervision3
 ABUS F232—Contemporary Management Issues3
 ABUS F241—Applied Business Law3
 ABUS F260—Marketing Practices (3)
 or ABUS F263—Public Relations (3)3
 BA F151—Introduction to Business3
 CIOS elective appropriate to skill level3

4. Complete one of the following concentrations:
Administrative Management

Complete the following:

ABUS F102C—Keyboarding: Document Formatting	1
ABUS F116—Using 10-Key Calculators.....	1
ABUS F134—Alphabetic Filing	1
ABUS F170—Business English	3
ABUS F182—Office Procedures.....	3
ABUS F264—Filing/Records Management	3
ABUS, CIOS, PLS, HLTH or other advisor approved electives ..	9

Applied Management

Complete one of the following (21 or more credits):

- a. A university approved certificate; or
- b. A professional, technical or vocational license or certification issued by government or industry with training equivalent to a university certificate and 21 department approved electives.

Computer Applications

Complete the following:

CIOS F100-level or above word processing elective.....	3
CIOS F100-level or above microcomputer spreadsheet elective	3
CIOS F100-level or above microcomputer database elective ..	3
CIOS F100-level or above microcomputer graphics elective ..	3
CIOS F100-level or above Internet or web design elective.....	3
ABUS, ACCT, BA or CIOS electives	6

Entrepreneurship

Complete the following:

ABUS F201—Principles of Accounting II (3)	
or ABUS F210—Income Tax (3)	
or ABUS F220—QuickBooks Accounting (3)	
or ABUS F221—Microcomputer Accounting (3)	
or ABUS F235—Fund Accounting for Non-Profits (3)	3
ABUS F233—Financial Management	3
ABUS F265—Seminar in Applied Marketing	3
ABUS F272—Small Business Planning	3
ABUS F273—Managing a Small Business	3
ABUS F274—E-commerce	3
ABUS, ACCT, BA or CIOS electives	3

Finance

Complete the following:

ABUS F120—Personal Finance and Investing.....	3
ABUS F160—Principles of Banking.....	3
ABUS F201—Principles of Accounting II	3
ABUS F210—Income Tax	3
ABUS F220—QuickBooks Accounting (3) or ABUS F221—Microcomputer Accounting (3)	3
ABUS F233—Financial Management	3
ABUS F272—Small Business Planning	3

Health Care Management

Complete the following:

HLTH F100—Medical Terminology	3
HLTH F118—Medical Law and Ethics.....	2
HLTH F132—Administrative Procedures I	2
HLTH F208—Human Diseases.....	3
HLTH F234—Administrative Procedures II	4
HLTH F235—Medical Coding.....	4
HLTH F236—Outpatient Health Care Reimbursement	3

Human Resources

Complete the following:

ABUS F141—Payroll Accounting	3
ABUS F178—Business and Professional Presentations	3
ABUS F231—Introduction to Personnel	3
ABUS F242—Employment Law.....	3
CIOS F100-level or above microcomputer spreadsheet elective	3
CIOS F100-level or above microcomputer database elective	3
ABUS, ACCT, BA or CIOS electives	3

International Business

a. Complete the following:

ABUS F178—Business and Professional Presentations	3
ABUS F233—Financial Management	3
ABUS F265—Seminar in Applied Marketing	3
ABUS F275—Applied International Business.....	3
Foreign language elective	3

b. Complete one of the following elective options:

Option 1

ABUS F272—Small Business Planning (3)	
or ABUS F273—Managing a Small Business (3)	3
PS F201—Comparative Politics (3)	
or PS F321W—International Politics (3)	3

Option 2

ABUS F299—Practicum in Applied Business	
(Study Abroad)	6

Management

Complete the following:

ABUS, ACCT, BA, ECON, MATH or STAT or other department approved electives.....	21
Recommended courses include, but are not limited to:	
MATH F161X, MATH F262, ACCT F262, ECON F100X, ECON F200, ECON F201, ECON F202, ECON F227, BA F254, STAT F200X, ABUS F201, ABUS F202, etc,	
ABUS F272—Small Business Planning (3)	
or ABUS F273—Managing a Small Business (3)	3

Marketing

Complete the following:

ABUS F178—Business and Professional Presentations	3
ABUS F265—Seminar in Applied Marketing	3
ABUS F274—E-commerce	3
CIOS F200-level or above desktop publishing or graphics elective	3
CIOS F200-level or above Internet or web design elective.....	3
ABUS, BA or CIOS electives.....	6

Public Management

Complete the following:

ABUS F235—Fund Accounting.....	3
PS F100X—Political Economy	3
PS F101—Introduction to American Government and Politics	3
PS F212—Introduction to Public Administration	3
PS F403W—Public Policy (3)	
or ABUS F242—Employment Law	3
ABUS, ACCT, CIOS or PS electives	6

Recreation and Guiding Management

Complete the following:

ABUS F158—Introduction to Tourism	3
NRM F101—Natural Resources Conservation and Policy	3
NRM F161—Wilderness Leadership Education.....	3
EMS F152—Emergency Trauma Training First Responder (3)	
or EMS F195—Wilderness First Responder (3)	
or more advanced Emergency First Responder Training (3)	3
EMS F257—Arctic Survival (3)	
or NRM F361—Advanced Wilderness Leadership (3)	3
RECR electives	6

Tourism

a. Complete the following:

ABUS F158—Introduction to Tourism	3
ABUS F199—Practicum in Applied Business	3
ABUS F265—Seminar in Applied Marketing	3
ABUS F275—Applied International Business.....	3

b. Complete 3 credits from the following electives:

ABUS F256—Small Hotel, Bed and Breakfast, and Lodge Operations	1 – 3
ABUS F267—Transportation and Logistics Management	1 – 3

ABUS F268—Rural Tourism: Planning and Principles...1 – 3	1 – 3
ABUS F269—Food and Beverage Management.....1 – 3	1 – 3

c. Complete one of the following elective options:

Option 1	
ABUS, ACCT, BA, CAH or CIOS electives.....	6
Option 2	
ABUS F299—Practicum in Applied Business (Study Abroad)	3
Foreign language	3

5. Minimum credits required

* Student must earn a C grade or better in each course.

Minors:**Applied Business — General Business**

1. Complete the following:	
ABUS F101—Principles of Accounting I.....	3
ABUS F175—Customer Service.....	3
ABUS F232—Contemporary Management Issues	3
ABUS F260—Marketing Practices (3)	
or ABUS F263—Public Relations (3).....	3
BA F151—Introduction to Business	3
CIOS elective appropriate to skill level.....	3

2. Minimum credits required

Note: Other courses specific to individual education and career goals may be substituted with program approval.:

Applied Business — Recreation and Guiding Management

1. Complete the following:	
ABUS F158—Introduction to Tourism	3
ABUS F175—Customer Service.....	3
NRM F161—Wilderness Leadership Education.....	3
EMS F152—Emergency Trauma Training First Responder (3)	
or EMS F195—Wilderness First Responder (3)	
or more advanced Emergency First Responder Training (3).....	3
2. Complete six credits from the following electives:	
RECR electives (1-6)	
or NRM F361—Advanced Wilderness Leadership (3)	6
or ABUS/NRM/RECR approved practicum (1-6)	6
3. Minimum credits required	18
Note: Other courses specific to individual education and career goals may be substituted with program approval.	

BUSINESS MANAGEMENT, APPLIED

College of Rural and Community Development
Business Technologies Division
Bristol Bay Campus 907-842-5109
Chukchi Campus 907-442-3400
Interior-Aleutians Campus 907-474-5439
Kuskokwim Campus 907-543-4500
Northwest Campus 907-443-2201
Tanana Valley Campus 907-455-2800
www.tvc.uaf.edu/abus/

Certificate

Minimum Requirements for Certificate: 30 credits

Planning and preparation are keys to success in business. The applied business management certificate provides students with the basic principles necessary to run a business effectively. Graduates of the program will have the foundation of contemporary management skills needed to successfully lead private, public and non-profit organizations through ever-changing social and economic conditions.

The program covers basic knowledge and skills, emerging technologies, advanced procedures, and interpersonal skills. Course work includes accounting, management, human relations, math, communications, customer service, computers, law, finance and logic. The curriculum also serves as the first year of training toward the A.A.S. degree in applied business.

Potential careers for graduates include entrepreneurship and entry-level positions in business management, tourism, human resources, public administration and office administration.

Certificate Program

Concentrations: Computer Applications, Finance, General Business, Human Resources, International Business, Marketing, Office Administration, Public Management, Recreational Guiding and Tourism.

1. Complete the general university requirements (page 82).
2. Complete the following certificate requirements:
 - a. Complete 3 credits from one of the following communication courses:
ABUS F170—Business English (3)
or ABUS F271—Business Communications (3)
or ENGL F111X—Introduction to Academic Writing (3)
or ENGL F212—Business, Grant, and Report Writing (3)....3
 - b. Complete one of the following computation requirements:
ABUS F155—Business Math (3)
or any MATH course at the F100-level or above (3)3
 - c. Complete the following human relations course:
ABUS F154—Human Relations3
3. Complete the following general business courses:
ABUS F101—Principles of Accounting I (3)
or ABUS F142—Office Accounting I (3)3
BA F151—Introduction to Business3
CIOS elective appropriate to skill level.....3
4. Complete one of the following concentrations:

Computer Applications

CIOS F100-level or above word processing elective.....3
CIOS F100-level or above microcomputer spreadsheet elective3
CIOS F100-level or above microcomputer database elective3
CIOS F100-level or above microcomputer graphics or web design elective.....3

Finance

ABUS F120—Finance and Personal Investing.....3
ABUS F160—Principles of Banking.....3
ABUS F210—Income Tax3

ABUS F233—Financial Management3
CIOS F135—Microcomputer Spreadsheets.....3
Note: CIOS F135 is the required CIOS general business core elective for this certificate.

General Business

ABUS F201—Principles of Accounting II (3)	3
or ABUS F210—Income Tax (3)	
or ABUS F220—QuickBooks Accounting (3)	
or ABUS F221—Microcomputer Accounting (3)	
or ABUS F235—Fund Accounting for Non-Profits (3)	3
ABUS F179—Fundamentals of Supervision.....	3
ABUS F232—Contemporary Management Issues	3
ABUS F260—Marketing Practices (3)	
or ABUS F263—Public Relations (3).....	3

Human Resources

ABUS F141—Payroll Accounting	3
ABUS F179—Fundamentals of Supervision.....	3
ABUS F231—Introduction to Personnel	3
ABUS F242—Employment Law.....	3

International Business

ABUS F178—Business and Professional Presentations	3
ABUS F275—Applied International Business.....	3
PS F201—Comparative Politics.....	3
Foreign language elective	3

Marketing

ABUS F175—Customer Service.....	3
ABUS F178—Business and Professional Presentations	3
ABUS F260—Marketing Practices (3)	
or ABUS F263—Public Relations (3).....	3
CIOS F200-level graphics or web design elective.....	3

Office Administration

ABUS F102C—Keyboarding: Document Formatting	1
ABUS F116—Using 10-Key Calculators.....	1
ABUS F134—Alphabetic Filing	1
ABUS F170—Business English	3
ABUS F182—Office Procedures.....	3
ABUS F264—Filing/Records Management	3

Public Management

ABUS F235—Fund Accounting.....	3
PS F100X—Political Economy	3
PS F101—Introduction to American Government and Politics	3
PS F212—Introduction to Public Administration	3

Recreational Guiding

ABUS F175—Customer Service.....	3
NRM F161—Wilderness Leadership Education.....	3
EMS F152—Emergency Trauma Training First Responder (3)	
or EMS F195—Wilderness First Responder (3)	
or more advanced Emergency First Responder	
Training (3)	3
RECR electives	3

Tourism

ABUS F158—Introduction to Tourism	3
ABUS F175—Customer Service.....	3
ABUS F199—Practicum in Applied Business	3
ABUS F256—Small Hotel, Bed and Breakfast, and Lodge Operations (1-3)	
or ABUS F267—Transportation and Logistics Management (1-3)	

or ABUS F268—Rural Tourism: Planning and Principles (1-3)	
or ABUS F269—Food and Beverage Management (1-3)	3
5. Minimum credits required.....	30
Note: Other courses specific to individual education and career goals may be substituted with program approval.	

COMMUNITY HEALTH

College of Rural and Community Development
 Bristol Bay Campus 907-842-5109
 Chukchi Campus 907-442-3400
 Interior-Aleutians Campus 907-474-5439
 Kuskokwim Campus 907-543-4500
 Northwest Campus 907-443-2201
www.uaf.edu/crcdhealth/
 Community Health Aide/Practitioner Training Centers:
 Anchorage CHA Training Program, ANTHC 907-786-1641;
 Norton Sound Health Corp., Nome 907-443-3404;
 Southeast Alaska Regional Health Corp., Sitka 907-966-8760;
 Yukon-Kuskokwim Health Corp., Bethel 907-543-6155.

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 34 credits; for Degree: 60 credits

The community health aide/practitioner (CHA/P) training program prepares students to provide primary health care services in villages, under the supervision of a referral physician. As a prerequisite, students entering the program must be employed by a regional health corporation.

The educational program consists of four basic training sessions, each four weeks long and followed by a field component in the CHA's village clinic. The curriculum includes the knowledge and skills necessary to provide acute care for common medical problems, emergency care, follow-up care for patients with chronic illnesses, and preventive services including prenatal and well-child care. The training also includes state-approved emergency care courses, completion of a skills checklist, a supervised clinical preceptorship, and passing the CHP statewide examination.

Upon successful completion of all certification requirements, students are awarded a community health practitioner (CHP) certificate by the training center. Students completing the training program also meet the requirements for a university certificate recognizing the credits earned. These credits may be used to satisfy requirements for the A.A.S. degree.

The CHA/P academic review committee (ARC), composed of representatives from the regional health corporations, training centers and university, ensures that the curriculum and certification process is kept uniform throughout the state. The ARC reports to the Association of CHA/P Program Directors and serves in an advisory role to the dean of the College of Rural and Community Development.

For more information about the CHA/P basic training program, contact one of the CHA/P training centers. For more information about the A.A.S. degree, contact the College of Rural and Community Development health programs office at 907-455-2050 or 1-866-955-2050.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements. (See page 84. As part of the certificate requirements, the communication, computation and human relations content is embedded in some of the major required courses for this program.).

3. Complete the following:	
CHP F131—Community Health Aide, Session I.....	8
CHP F132—Community Health Aide, Session II.....	8
CHP F133—Community Health Aide, Session III	8
CHP F134—Community Health Aide, Session IV	8
CHP F135—Community Health Aide, Preceptorship.....	2

4. Minimum credits required	34
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Note: The student may take CHP F082 prior to CHP F131 as an option when regionally available.

Major — A.A.S. Degree

1. Complete the general university requirements (page 82).	
2. Complete the A.A.S. degree requirements (page 86).	
3. Complete the following program (major) requirements:*	
a. Complete the following:	
CHP F131—Community Health Aide, Session I.....	8
CHP F132—Community Health Aide, Session II.....	8
CHP F133—Community Health Aide, Session III	8
CHP F134—Community Health Aide, Session IV	8
CHP F135—Community Health Aide, Preceptorship.....	2
b. Complete 5 or more credits from the following:	
CHP F203—Clinical Update for Community Health Practitioners.....	1 – 3
CHP F206—Mental Health and Substance Abuse.....	1 – 3
CHP F207—Maternal and Infant Health	1 – 3
CHP F208—Communicable Diseases	1 – 3
CHP F211—Health Education	1 – 3
CHP F212—Diabetes: Primary Prevention and Village Medical Care	1 – 3
CHP F214—Cancer: Risks, Diagnosis and Treatment.....	3
CHP F215—Death and Dying	3
CHP F220—Women's Health: Breast and Cervical Cancer Screening.....	2
CHP F250—Current Issues in Rural Health Care**	1 – 3
CHP F293—Special topic courses	
EMS—any F200-level courses	
HLTH—any F200-level courses	
4. Complete electives	6
5. Minimum credits required	60

* Student must earn a C grade or better in each course.

** May repeat up to 3 credits toward A.A.S. degree.

CONSTRUCTION MANAGEMENT

College of Rural and Community Development
 Tanana Valley Campus
 907-455-2846
www.tvc.uaf.edu/programs/cm/

A.A.S. Degree

Minimum Requirements for Degree: 65 credits

The construction management program meets growing needs in the construction industry by training entry-level construction managers and by providing continuing education for construction employees.

Construction managers plan, direct and are responsible for oversight of construction projects. They are responsible for coordinating and managing people, materials and equipment; budgets, schedules and contracts; and the safety of employees and the general public. Construction managers determine construction means and methods and the most cost-effective plans and schedules. They track construction costs and administer contract changes to the project budget to maximize profitability. Construction managers monitor work progress to ensure compliance with architectural and engineering drawings and specifications.

Construction managers work in all phases of the construction business — for public and private owners; on small multi-family projects to the largest of skyscrapers and industrial projects; and on rural roads to major highways. Construction managers work closely with architects, engineers, owners and the various contractors on a construction job. The construction manager's duties are varied, challenging and rewarding.

UAF's construction management program was developed with input from local contractors and professional industry organizations. It provides students with a broad knowledge of building systems and construction techniques. CM graduates understand basic principles of business and know about the technical aspects of the construction industry. Graduates are able to function both in the construction office and on the job site.

The CM A.A.S. degree requires four to five semesters to complete. While not a prerequisite, it is recommended that students applying for admission have experience in the construction industry.

Major — A.A.S. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements. (See page 86. As part of the A.A.S. degree requirement complete ENGL F111X, ENGL F212 and COMM F131X or COMM F141X for the communications requirement, and MATH F107X for the computation requirement. The human relations content is embedded in some of the major required courses for this program.)
3. Complete the following program (major) requirements:

ABUS F101 Principles of Accounting I.....	3
ABUS F201 Principles of Accounting II.....	3
CM F102 Methods of Building Construction.....	3
CM F123 Codes and Standards	3
CM F142 Mechanical and Electrical Technology	4
CM F163 Building Construction Cost Estimating.....	3
CM F201 Construction Project Management.....	3
CM F202 Project Planning and Scheduling.....	3
CM F205 Construction Safety	3
CM F213 Civil Technology.....	4
CM F231 Structural Technology.....	4
CM F263 Civil Construction Cost Estimating.....	3
CM F299 Construction Management Internship	3
DRT F170 Beginning AutoCAD	3
MATH F108 Trigonometry	3
PHYS F103X College Physics	4
4. Minimum credits required 65

* Student must earn a C grade or better in each course.

CONSTRUCTION TRADES TECHNOLOGY

College of Rural and Community Development
Interior-Aleutians Campus
907-474-5439
www.uaf.edu/iac/

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 36.5 – 38.5 credits; for Degree: 73 – 75 credits

The construction trades technology program is designed to prepare students to work in the construction industry. The program prepares students for employment in areas where there is a projected shortage of skilled workers and for potential entry into an apprenticeship program.

This program provides students with fundamental knowledge of construction industry expectations as well as hands-on training. It

responds to the skills targeted by Alaskan employers. Students completing the certificate program will have completed the first year of the A.A.S. degree program. Graduates of the A.A.S. degree program may pursue opportunities with employers as they acquire a higher level of construction trade skills.

A strong desire to work in the construction trades industry is important. Students must be willing to work collaboratively with industry employees in construction trades in their local area in order to fulfill the practicum components of courses.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements. (See page 84. As part of the certificate requirement, complete 3 credits each in the communication and human relations requirements.)
3. Complete 3 credits from one of the following computation courses:

CTT F106—Construction Mathematics (3)	
or TTCH F131—Mathematics for the Trades (3)	3
4. Complete the following program (major) requirements:

CTT F100—Construction Technology Core (3)	
or CTT F101—Basic Construction Safety (1)	
and CTT F102—Introduction to Hand and Power Tools (1)	
and CTT F103—Introduction to Blueprint Reading (1)	
and CTT F104—Basic Communication and Employability Skills (2)	3 – 5
CTT F110—Residential Carpentry — Level One (8.5)	
or CTT F111—Materials and Tools Used in the Trade (2.5)	
and CTT F112—Floor Systems, Wall and Ceiling Framing (2)	
and CTT F113—Roof Framing, Windows and Exterior Doors (2)	
and CTT F114—Introduction to Concrete Materials and Forms (2)	8.5
CTT F115—Residential Carpentry — Level Two (12)	
or CTT F116—Reading Plans and Site Layout — Level One (2)	
and CTT F117—Exterior Finish and Moisture Protection (2)	
and CTT F118—Roofing, Stairs and Metal Studs Applications (3)	
and CTT F119—Drywall and Interior Finish Applications (5)	12
CTT F199—Student Practicum I.....	3
HLTH F122—First Aid and CPR	1
5. Minimum credits required 36.5 – 38.5

Major — A.A.S. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements. (See page 86. As part of the degree requirements, complete CTT F106 or TTCH F131 for the computation requirement.)
3. Complete the following construction trades technology certificate program requirements:

CTT F100—Construction Technology Core (3)	
or CTT F101—Basic Construction Safety (1)	
and CTT F102—Introduction to Hand and Power Tools (1)	
and CTT F103—Introduction to Blueprint Reading (1)	
and CTT F104—Basic Communication and Employability Skills (2)	3 – 5
CTT F110—Residential Carpentry — Level One (8.5)	
or CTT F111—Materials and Tools Used in the Trade (2.5)	
and CTT F112—Floor Systems, Wall and Ceiling Framing (2)	

and CTT F113—Roof Framing, Windows and Exterior Doors (2)	
and CTT F114—Introduction to Concrete Materials and Forms (2)	8.5
CTT F115—Residential Carpentry — Level Two (12)	
or CTT F116—Reading Plans and Site Layout — Level One (2)	
and CTT F117—Exterior Finish and Moisture Protection (2)	
and CTT F118—Roofing, Stairs and Metal Studs Applications (3)	
and CTT F119—Drywall and Interior Finish Applications (5)	12
CTT F199—Student Practicum I.....	3
HLTH F122—First Aid and CPR.....	1
4. Complete the following program (major) requirements:*	
CTT F150—Plumbing — Level One (4)	
or CTT F151—Introduction to Plumbing Tools and Plumbing Drawings (1)	
and CTT F152—Introduction to Plumbing Math (1)	
and CTT F153—Plastic and Copper Pipe and Fittings (1)	
and CTT F154—Fixtures, Faucets, and Venting Systems (1)	4
CTT F155—Plumbing — Level Two (8)	
or CTT F156—Intermediate Math and Reading Commercial Drawings (2)	
and CTT F157—Installing and Testing DWV Piping and Other Drains (2)	
and CTT F158—Valves, Faucets and Fixtures: Installation and Testing (3)	
and CTT F159—Fuel Gas Systems (1)	8
CTT F170—Residential Electrical — Level One (9)	
or CTT F171—Electrical Safety and Electric Theory (2)	
and CTT F172—Alternating Current, Electrical Test Equipment and the NEC (2)	
and CTT F173—Raceways, Boxes, Fittings and Hand Bending (2.5)	
and CTT F174—Boxes, Fittings, Conductors, Terminations and Splices (2.5)	9
CTT F175—Residential Electrical — Level Two (8)	
or CTT F176—Electrical Blueprint Reading, Wiring Devices, and Raceway, Box and Fitting Fill (2)	
and CTT F177—Wiring: Commercial and Residential, and Grounding (2)	
and CTT F178—Circuit Breakers, Fuses and Electric Services (2)	
and CTT F179—Lighting Fixtures and Related Components (2)	8
CTT F299—Student Practicum II	1.5
5. Minimum credits required	73 – 75

* Student must earn a C grade or better in each course.

CULINARY ARTS

College of Rural and Community Development
Tanana Valley Campus
907-455-2800
www.tvc.uaf.edu/programs/culinary/

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 37 credits; for Degree: 69 credits

The culinary arts program prepares students for a career in this expanding field. Graduates can seek employment in food production or in management of restaurants, bakeries, hotels, hospitals, camps

or any other facility that requires food service as part of its operation. This department offers both an associate degree and a certificate.

Certificate Program

Concentrations: Baking, Cooking, Culinary Arts

1. Complete the general university requirements (page 82).	
2. Complete the certificate requirements (page 84). As part of the certificate requirements, the computation content is included in CAH F256.	
3. Complete the following:	
CAH F105—Principles of Food Service	3
CAH F140—Food Production I.....	5
CAH F145—Bakery Production I.....	5
CAH F150—Sanitation.....	1
CAH F152—Supervisory Development.....	2
CAH F161—Pastry Tube Art	1
CAH F256—Food Service Accounting.....	2
4. Complete 2 credits from the following culinary specialty electives:	
CAH F117—Art in Cake Icing.....	2
CAH F154—Dining Room Service	2
CAH F160—Principles of Nutrition.....	2
CAH F170—Gourmet Cooking.....	2
CAH F171—Gourmet Baking.....	2
CAH F172—Gourmet Asian/Oriental Cooking.....	2
CAH F175—Introduction to Meat Cutting	2
CAH F257—Oenology-Hospitality Industry I.....	1
CAH F258—Oenology-Hospitality Industry II	1
5. Complete one of the following concentrations:	
a. Culinary Arts	
CAH F141—Food Production II	5
CAH F146—Bakery Production II.....	5
b. Culinary Arts: Baking	
CAH F146—Bakery Production II.....	5
CAH F247—Bakery Production III	5
c. Culinary Arts: Cooking	
CAH F141—Food Production II	5
CAH F242—Food Production III	5
6. Minimum credits required	37

Major — A.A.S. Degree

1. Complete the general university requirements (page 82).	
2. Complete the A.A.S. degree requirements (page 86).	
3. Complete the following program (major) requirements:*	
CAH F105—Principles of Food Service	3
CAH F140—Food Production I.....	5
CAH F141—Food Production II	5
CAH F145—Bakery Production I.....	5
CAH F146—Bakery Production II.....	5
CAH F150—Sanitation.....	1
CAH F152—Supervisory Development.....	2
CAH F242—Food Production III	5
CAH F243—Food Production IV	5
CAH F247—Bakery Production III	5
CAH F248—Bakery Production IV	5
CAH F250—Garde-Manger	2
CAH F253—Storeroom Purchasing and Receiving	2
CAH F255—Food Service Management.....	2
CAH F256—Food Service Accounting.....	2
4. Minimum credits required	69

* Student must earn a C grade or better in each course.

DENTAL HYGIENE

College of Rural and Community Development
Tanana Valley Campus 907-455-2834
www.tvc.uaf.edu/programs/health/dh/

A.A.S. Degree

Minimum Requirements for A.A.S. Degree: 69 credits

The registered dental hygienist is a licensed oral health educator and clinical operator who uses preventive, educational and therapeutic methods to help individuals and groups attain and maintain optimum oral health. The dental hygiene A.A.S degree is a three-year program with one year of prerequisite 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. Once enrolled as a dental hygiene student, the student can anticipate a four-semester, 40-hour-per-week intensive program. Some evening classes and clinics are scheduled.

The dental hygiene program has received initial accreditation from the Commission on Dental Accreditation of the American Dental Association.

Admission Requirements

Admission to the dental hygiene program is competitive. Six students per year are accepted, based on the following criteria:

1. Complete UAF application.
2. Complete dental hygiene program application.
3. Proof of immunity to rubella, rubeola, varicella, hepatitis A, hepatitis B, tetanus, diphtheria and pertussis.
4. Evidence of freedom from tuberculosis by PPD or chest X-ray within the previous six months.
5. Current CPR certification for health care providers.
6. Complete the required prerequisite with a C* (2.0) or better in each course, and an overall GPA of at least 2.5. GPA is considered in the admission criteria.
7. Scores on the Health Occupational Basic Entrance Test (HOBET).
8. Personal interview for top tier candidates.
9. Complete prerequisite courses**:
 BIOL F111X—Human Anatomy and Physiology I.....4
 BIOL F112X—Human Anatomy and Physiology II.....4
 BIOL F240—Beginnings in Microbiology4
 CHEM F103X—Basic General Chemistry4
 CHEM F104X—Beginnings in Biochemistry: A Survey of Organic Chemistry and Biochemistry4
 HLTH F203—Science of Nutrition3
 PSY F101—Introduction to Psychology3

** Courses with equivalent content transferred from another university may be substituted for the above UAF courses.

Note: Additional information and a complete application packet are available at 907-455-2834 or 907-455-2805, fydh@uaf.edu, or www.tvc.uaf.edu/programs/health/dh/. It is strongly recommended that interested students work with the dental hygiene advisor while preparing to apply to the program.

Major — A.A.S. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements. (See page 86. As part of the degree requirements, complete SOC—F100X for the human relations requirement.)
3. Complete the following program (major) requirements:
 HLTH F150—Dental Radiography and Lab4

DH F111—Dental Anatomy Embryology and Histology	2
DH F112—Techniques for Dental Hygienists.....	7
DH F114—Anatomy of the Orofacial Structures.....	2
DH F121—Periodontics I—2	
DH F122—Techniques II for Dental Hygienists.....	4
DH F165—Introduction to Dental Pharmacology.....	2
DH F181—Clinical Practicum I	4
DH F182—Clinical Seminar I.....	1
DH F211—Periodontics II.....	2
DH F212—Techniques III for Dental Hygienists.....	3
DH F214—Pathology for Oral Tissues	2
DH F224—Principles of Dental Health	3
DH F283—Clinical Practicum II	5
DH F284—Clinical Seminar II	1
DH F285—Clinical Practicum III.....	6
DH F286—Clinical Seminar III	1
DH F310—Oral Pain Control.....	3

4. Minimum credits required69

* Students must earn a C grade or better in each course.

DIESEL/HEAVY EQUIPMENT

College of Rural and Community Development
Tanana Valley Campus
907-455-2809
www.tvc.uaf.edu/programs/diesel/

Certificate

Minimum Requirements for Certificate: 40 – 42 Credits

The diesel and heavy equipment mechanics program offers the student training in the maintenance and repair of trucks, buses and heavy equipment. This one-year certificate program emphasizes hands-on training and in-class experience as students form preventive maintenance inspections, determine causes of equipment problems and make necessary repairs and adjustments from tune-ups to complete engine and equipment overhauls. Students work on large truck fuel, electrical and air systems, diesel engines, transmissions, differentials, crawler tractor undercarriages, steering and final drives. A student may request credit by examination for any DSLT or MECN class. See department coordinator for details.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements (page 84). As part of the certificate requirements, the computation content is embedded in the major required courses for this program.
3. Complete the following program (major) requirements:
 DSLT F101—Safety Including Rigging and Lifting1
 DSLT F103—Basic Equipment and Truck Operation1
 DSLT F105—Preventive Maintenance3
 DSLT F107—Basic Electrical Systems and Electrical Fuel Injection3
 DSLT F123—Heavy Duty Braking Systems3
 DSLT F154—Diesel Fuel Injection3
 DSLT F201—Manual Transmissions and Differentials3
 DSLT F202—Heavy Duty Automatic Transmissions2
 DSLT F254—Engines5
 MECN F103—Starting and Charging Systems3
 MECN F210—Hydraulics3
 WMT F103—Welding I3
 WMT F105—Welding II3
4. Minimum credits required40 – 42

DRAFTING TECHNOLOGY

College of Rural and Community Development
Tanana Valley Campus
907-455-2845
www.tvc.uaf.edu/programs/drafting/

Certificate

Minimum Requirements for Certificate: 36 credits

The drafting technology program offers students the opportunity to gain hands-on experience and knowledge in the field of computer-aided drafting.

Courses combine technical know-how and hands-on experience necessary for work in a variety of drafting fields. Qualified students have the opportunity to work side-by-side with professionals from the architectural and engineering community in internship situations, gaining valuable on-the-job experience. In the classroom, students develop skills in mathematics, drawing and multi-functional AutoCAD techniques. Students are introduced to conventional drawing techniques and computer-aided drafting from their very first course.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements (page 84).
3. Complete the following program requirements:

DRT F101—Introduction to Drafting	3
DRT F110—Computer Literacy for Drafting	3
DRT F170—Beginning AutoCAD	3
DRT F210—Intermediate AutoCAD	3
PRT F110—Introduction to Occupational Safety	3
PRT F117—Drafting for Technicians	3
4. Complete 9 credits from the following or program coordinator-approved electives:

CM F102—Methods of Building Construction	3
CM F123—Codes and Standards	3
DRT F112—Introduction to GIS	3
DRT F115—Graphics I	3
DRT F121—Building Trades Blueprint Reading	3
DRT F140—Architectural Drafting	3
DRT F150—Civil Drafting I	3
DRT F160—Drafting Internship	1 – 6
DRT F270—Advanced AutoCAD	3
ES F101—Introduction to Engineering	3
PRT F101—Introduction to Process Technology	3
5. Minimum credits required 36

Note: DRT F140, DRT F141, DRT F150 and DRT F151 are available through the Center for Distance Education and Independent Learning. For information phone 907-474-5353.

EARLY CHILDHOOD EDUCATION

College of Rural and Community Development
Bristol Bay Campus 907-842-5109
Chukchi Campus 907-442-3400
Interior-Aleutians Campus 907-474-5207
Kuskokwim Campus 907-543-4500
Northwest Campus 907-443-2201
Tanana Valley Campus 907-455-2883
www.tvc.uaf.edu/programs/e-childhood/

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 31 – 34 credits;
for Degree: 60 credits

This program prepares students for employment as early childhood and child care providers and improves the skills of those already employed in the field. Graduates pursue opportunities with child care centers, head start programs, early childhood education programs, child welfare service agencies, scouting services, staff training, program licensing and public school teacher aide programs. This program meets standards specified by the National Association for the Education of Young Children and leads to state certification as an Early Childhood Education Associate II.

The certification program in early childhood is for students enrolling in college for the first time as well as for those who are educated in other subject areas but desire retraining for employment in this field. Through course work, students gain the knowledge and skills they need to pursue the field-based Child Development Associate Credential and to meet state of Alaska requirements for employment as directors or teachers in licensed centers. Course work also fulfills minor or concentration requirements for degrees in other disciplines.

Students entering either the A.A.S. degree or certificate program should meet with an early childhood advisor to discuss a specific course of study. The required early childhood courses offered by any of the UAF campus sites may be used to meet graduation requirements for the certificate or degree.

An agreement between the UAF College of Rural and Community Development and the University of Alaska Southeast allows students in rural locations to take courses in early childhood education and obtain an A.A.S. degree via distance delivery. Students should contact their advisor for assistance with the selection of general education courses and electives that meet the degree requirements of their campus. The courses for the certificate and A.A.S. degree lay the foundation for the B.A. in Child Development and Family Studies.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the following certificate requirements:
 - a. Complete the following communication courses:

ENGL F111X—Introduction to Academic Writing	3
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 - b. Complete one of the following computation courses:

ECE F117—Math Skills for Early Childhood Educators	3
Any MATH course at the F100-level or above	3
 - c. Complete the following human relations course:*

ECE F245—Child Development (3)	
or ABUS F154—Human Relations	3
3. Complete the following program (major) requirements:*

ECE F101—Introduction to Early Childhood Profession	3
ECE F118—Nutrition, Health, and Safety (3)	
or ECE F111—Nutrition (1)	
and ECE F112—Healthy Environments for Young Children (1)	
and ECE F113—Safe Environments for Young Children (1)	3
ECE F132—Young Child and the Family	1
ECE F140—Positive Social Development (3)	
or ECE F141—Class Management (1)	
and ECE F142—Social Development of the Young Child (1)	
and ECE F143—Developing Positive Self-Concepts in Young Children (1)	3
4. Complete 6 credits of child development classes, birth through age 8, from the following, or other advisor-approved credits**:

ECE F220—Infant and Toddler Care (3)	
and ECE F245—Child Development (3)	
or ECE F104—Child Development I: Prenatal, Infants and Toddlers (3)	
and ECE F107—Child Development II: Preschool and the Primary Years (3)	6

5. Complete 6 credits of curriculum from the following or other advisor-approved credits**:
ECE F120A—Curriculum I (3)
or ECE F105—Developmentally Appropriate Practice (1)
and ECE F121—Physical Activities for Young Children (1)
and ECE F123—Language and Literature Activities for Young Children (1)
and ECE F120B—Curriculum II (3)
or ECE F122—Cognitive Activities for Young Children (1)
and ECE F124—Creative Activities for Young Children (1)
and ECE F125—Math Activities (1)
or ECE F127—Language and Creative Expression (3)
or ECE F121—Physical Activities for Young Children (1)
and ECE F123—Language and Literature Activities for Young Children (1)
and ECE F124—Creative Activities for Young Children (1)
and ECE F128—Thinking, Reasoning and Discovery (3)
or ECE F105—Developmentally Appropriate Practices (1)
and ECE F122—Cognitive Activities for Young Children (1)
and ECE F125—Math Activities (1).....6
6. Complete 3 credits of practicum and reflection from the following or other advisor-approved credits**:
ECE F170—Practicum I*** (3)
or ECE F115—Responsive and Reflective Teaching (3)
or ECE F171—Program Management (1)
and ECE F172—Professionalism (1)
and ECE F173—Reflective Teaching (1)3
7. Minimum credits required 31-34
* Only students taking ECE F104 and ECE F107 towards a degree should take ABUS F154 to meet Human Relations requirement.
** Student must earn a C grade or better in each course.
*** Students holding a Child Development Associate Credential (CDA) may enroll in ECE F170—Practicum I for 1 credit. Students without a CDA must enroll for 3 credits.
- Major — A.A.S. Degree**
1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements. (See page 86. As part of the A.A.S. degree requirement, complete ECE F117 or any course at the F100-level or above in mathematical sciences for the computation requirement, and ECE F245* for the human relations requirement.)
3. Complete the following:**
ECE F101—Introduction to Early Childhood Profession3
ECE F118—Nutrition, Health and Safety (3)
or ECE F111—Nutrition (1)
and ECE F112—Healthy Environments for Young Children (1)
and ECE F113—Safe Environments for Young Children (1)
ECE F140—Positive Social Development (3)
or ECE F141—Class Management (1)
and ECE F142—Social Development of the Young Child (1)
and ECE F143—Developing Positive Self-Concepts in Young Children (1)3
ECE F210—Child Development and Guidance3
ECE F235—Screening, Assessment and Recording2
ECE F240—Inclusion of Children with Special Needs3
ECE F242—Child and Family Ecology3
or ECE F301, ECE F342, or other advisor approved family
ECE F270—Practicum II3
4. Complete 6 credits of child development birth through age 8 from the following or advisor approved**:
ECE F220—Infant and Toddler Care (3)
and ECE F245—Child Development (3)
or ECE F104—Child Development I: Prenatal, Infants and Toddlers (3)
5. Complete 6 credits of curriculum from the following or advisor approved**:
ECE F120A—Curriculum I (3)
or ECE F105—Developmentally Appropriate Practice (1)
and ECE F121—Physical Activities for Young Children (1)
and ECE F123—Language and Literature Activities for Young Children (1)
and ECE F120B—Curriculum II (3)
or ECE F122—Cognitive Activities for Young Children (1)
and ECE F124—Creative Activities for young children (1)
and ECE F125—Math Activities (1)
or ECE F127—Language and Creative Expression (3)
or ECE F121—Physical Activities for Young Children (1)
and ECE F123—Language and Literature Activities for Young Children (1)
and ECE F124—Creative Activities for Young Children (1)
and ECE F128—Thinking, Reasoning and Discovery (3)
or ECE F105—Developmentally Appropriate Practices (1)
and ECE F122—Cognitive Activities for Young Children (1)
and ECE F125—Math Activities (1).....6
6. Complete 3 credits of practicum and reflection from the following or advisor approved**:
ECE F170—Practicum I*** (3)
or ECE F115—Responsive and Reflective Teaching (3)
or ECE F171—Program Management (1)
and ECE F172—Professionalism (1)
and ECE F173—Reflective Teaching (1)3
7. Electives approved by advisor 7-10
ECE F271—Seminar (1) – Recommended
8. Minimum credits required 60
* Only students taking ECE F104 and ECE F107 towards a degree should take ABUS F154 to meet Human Relations requirement.
** Student must earn a C grade or better in each course.
*** Students holding a Child Development Associate Credential (CDA) may enroll in ECE F170—Practicum I for 1 credit. Students without a CDA must enroll for 3 credits.
- Minor**
1. Complete the following:
ECE F101—Introduction to Early Childhood Profession3
2. Complete 15 ECE credits, including a minimum of 6 upper-division ECE credits and excluding special topics (ECE X93) or current issue (ECE F249) courses15*
3. Minimum credits required 18
* Students majoring in the B.A. in Child Development and Family Studies may not use courses in the major to meet the requirements for the minor.

EDUCATOR: PARA-PROFESSIONAL

College of Rural and Community Development
Interior-Aleutians Campus
907-474-5439
www.uaf.edu/iac/

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 30 credits; for A.A.S. Degree: 60 credits

The educator: para-professional (EDPA) program is designed to prepare students to work in classrooms assisting the classroom teacher. The EDPA curriculum emphasizes school protocols, classroom methods, management and assessment. This program prepares students

for employment as a para-professional educator and will improve the skills of those currently employed in various educational settings.

The certificate provides students with fundamental knowledge of how a school system "works" as well as hands-on training in content, methodology, classroom management and student assessment. The curriculum leads into the educator: para-professional associate of applied science degree. Graduates of the A.A.S. degree program may pursue many opportunities with school districts and local education agencies. The program meets mandates established by the No Child Left Behind Act of 2002 for teacher aides as well as the competencies developed by the state of Alaska. Students entering either the certificate or the A.A.S. degree program must meet with a program advisor to discuss a program of studies and to develop an individual learning plan. Students may receive credit for prior learning through work-based experience after evaluation of their learning experiences.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements (page 84).
3. Complete the following core requirements:

CIOS F100—Intro to Personal Computers.....	1
ED F110—Becoming a Teacher in the 21st Century	1
PSY F101—Intro to Psychology	3
EDPA F190—Integrating Local Knowledge into the Curriculum	1
EDPA F199—Practicum	1
EDPA F210—Technology in the Classroom	1
ECE/PSY F245—Child Development	3
4. Complete the following program requirements:

EDPA F110—Intro to Para-Professional Education	2
EDPA F120—Classroom Management	2
EDPA F130—Differentiating Instruction.....	2
EDPA F140—Developing Children as Writers	1
EDPA F150—Developing Children as Readers	1
EDPA F160—Primary Math Methods (1) or EDPA F170—Upper Elementary Math Methods (1).....	1
EDPA F250—Current Topics for Educators (1)	
5. Minimum credits required 30

Major — A.A.S. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements (page 86).
3. Complete the following program requirements:*

CIOS F100—Intro to Personal Computers.....	1
PSY F101—Intro to Psychology	3
ED F110—Becoming a Teacher in the 21st Century	1
EDPA F110—Intro to Para-Professional Education	2
EDPA F120—Classroom Management	2
EDPA F130—Differentiating Instruction.....	2
EDPA F140—Developing Children as Writers	1
EDPA F150—Developing Children as Readers	1
EDPA F160—Primary Math Methods (1) or EDPA F170—Upper Elementary Math Methods (1).....	1
EDPA F190—Integrating Local Knowledge into the Curriculum	1
EDPA F210—Technology in the Classroom	1
EDPA F250—Current Topics for Educators (1)	1
EDPA F299—Practicum II (1).....	1
ECE/PSY F245—Child Development	3
4. Complete 12 credits from one of the following concentration areas or combine no more than 2 concentration areas with 6 credits of course work in each of the two concentration areas*:
 - Alaska Native Languages
 - Elementary Education
 - Special Education
 - Counseling/Social Work
 - Early Childhood Education
 - Information Technology Specialist
 - Rural Development

Alaska Native Languages

ANL F199—Practicum in Native Language Education.....	3
ANL F251—Introduction to Athabaskan Linguistics	3
ANL F255—Introduction to Alaska Native Languages: Eskimo-Aleut (3)	
or ANL F256—Introduction to Alaska Native Languages: Indian Languages (3)	3
ANL F287—Teaching Methods of Alaska Native Languages	3
ANL F288—Curriculum & Materials Development for ANL	3
ANL Elective	3

Elementary Education

ECE F105—Developmentally Appropriate Practice	1
ED F102—Orientation to Alaska Native Education	2
ED F201—Introduction to Education	3
ED Elective	6

Special Education

ED F201—Introduction to Education	2
ECE F105—Developmentally Appropriate Practice	1
ECE F230—Introduction to Children with Special Needs.....	3
ECE F240—Inclusion of Children with Special Needs	3
ECE Elective	3

Counseling/Social Work

HUMS F120—Cultural Diversity in Human Services	3
HUMS F125—Introduction to the Addictive Process	3
HUMS F205—Basic Principles of Group Counseling	3
HUMS Elective	3

Early Childhood Education

ECE F105—Developing Appropriate Practice.....	1
ECE F120—Curriculum and Activities for Young Children	4
or	
ECE F121—Physical Activities for Young Children	1
ECE F122—Cognitive Activities for Young Children	1
ECE F123—Communicative Activities	1
ECE F124—Creative Activities for Young Children	1
ECE F130—Culture, Learning and the Young Child	1
ECE F140—Positive Social Development	3
or	
ECE F141—Class Management.....	1
ECE F142—Social Development of the Young Child	1
ECE F143—Developing Positive Self-Concepts in Young Children.....	1
ECE F210—Child Development and Guidance	3
ECE F235—Screening, Assessment and Recording.....	2
ECE Elective	3

Information Technology Specialist

CIOS F150—Computer Business Applications	1 – 3
CIOS F110—Microcomputer Operating Systems.....	1 – 3
CIOS F146—Using Internet Tools ad Technologies	1 – 3
CIOS F233—Desktop Publishing	1 – 3
CIOS F255—Microcomputer Graphics	1 – 3
CIOS Elective.....	1 – 3

Rural Development

ANTH F230—The Oral Tradition: Folklore and Oral History ..	3
HIST F250—Alaska History for Local Historians.....	3
RD F255—Rural Alaska Land Issues	3
RD F256—Co-Management of Renewable Resources (3) or RD F265—Perspectives on Subsistence in Alaska (3)	
or RD F280—Resource Management Research Techniques (3) or WLF F201—Wildlife Management Principles (3)	3
Elective	3

Other Concentration

Any advisor-approved discipline-based concentration area12

5. Minimum credits required60

* Student must earn a C grade or better in each course.

EMERGENCY SERVICES

College of Rural and Community Development

Tanana Valley Campus

907-455-2853

www.tvc.uaf.edu/programs/emergency/

A.A.S. Degree

Minimum Requirements for Degree: 68 – 73 credits

The UAF emergency services program provides classroom education, hands-on training and practical vocational experience through 10 local fire and rescue organizations. The program offers students a fundamental working knowledge of the various aspects of municipal fire, wildland fire, emergency medical services and hazardous materials control.

Instructors provide a high level of technical expertise on a variety of specialty emergency services. The primary goal of this program is to make our students the most attractive candidates for job openings and promotions within fire and other emergency services fields.

Associate degrees in municipal fire control, wildlands fire control, hazardous materials, emergency medical services and public safety are offered.

Major — A.A.S. Degree

Concentrations: Emergency Medical Services, Hazardous Materials Control, Municipal Fire Control, Public Safety and Wildland Fire Control

Emergency Medical Services

1. Complete the general university requirements (page 82).

2. Complete the A.A.S. degree requirements (page 86).

3. Complete the following program (major) requirements:*

EMS F170—EMT: Emergency Medical Technician I.....6

EMS F181—Clinical Rotation I4

EMS F183—Clinical Rotation II4

EMS F280—Paramedicine I12

EMS F282—Paramedicine II12

EMS F283—Paramedic Internship12

HLTH F114—Fundamentals of Anatomy and Physiology (4) or BIOL F111X and F112X8

4. Minimum credits required69 – 73

* Student must earn a C grade or better in each course.

Hazardous Materials Control

1. Complete the general university requirements (page 82).

2. Complete the A.A.S. degree requirements (page 86).

3. Complete the following program (major) requirements:*

a. Complete the following:

EMS F170—EMT: Emergency Medical Technician I.....6

FIRE F110—Introduction to Hazardous Waste Operations and Emergency Response3

FIRE F121—Fire Behavior and Combustion3

FIRE F131—Fire Fighter I Series I3

FIRE F133—Fire Fighter I Series II3

FIRE F135—Fire Fighter I Series III3

FIRE F137—Fire Fighter I Series IV3

FIRE F203—Hazardous Materials Chemistry I3

FIRE F205—Hazardous Materials Chemistry II3

FIRE F207—Hazardous Materials Technician3

FIRE F209—Hazardous Materials Command/Safety Officer3

FIRE F210—Fire Administration I3

b. Complete 9 credits from the following major elective courses:

FIRE F212—Building and Fire Codes3

FIRE F215—Advanced Hazardous Materials Technician3

FIRE F216—Methods of Instruction for Emergency Services Training3

FIRE F231—Hazardous Materials Tactical Operations3

FIRE F249—Computer Aided Management of Emergency Operations3

FIRE F293—Special Topics3

4. General electives6

5. Minimum credits required69

* Student must earn a C grade or better in each course.

Note: Major electives and general electives must be approved by the student's advisor.

Municipal Fire Control

1. Complete the general university requirements (page 82).

2. Complete the A.A.S. degree requirements (page 86).

3. Complete the following program (major) requirements:*

a. Complete the following:

EMS F170—EMT: Emergency Medical Technician I6

FIRE F101—Principles of Emergency Services3

FIRE F105—Fire Prevention3

FIRE F107—Strategy and Tactics3

FIRE F117—Rescue Practices3

FIRE F121—Fire Behavior and Combustion3

FIRE F131—Fire Fighter I Series I3

FIRE F133—Fire Fighter I Series II3

FIRE F135—Fire Fighter I Series III3

FIRE F137—Fire Fighter I Series IV3

FIRE F202—Fire Protection Hydraulics and Water Supply3

FIRE F203—Hazardous Materials Chemistry I3

FIRE F206—Building Construction for Fire Protection3

FIRE F210—Fire Administration I3

FIRE F214—Fire Protection Systems3

b. Complete 6 credits from the following major specialty electives:

FIRE F115—Fire Apparatus and Equipment3

FIRE F123—Fire Investigations I3

FIRE F151—Wildland Fire Control I3

FIRE F205—Hazardous Materials Chemistry II3

FIRE F207—Hazardous Materials Technician3

FIRE F212—Building and Fire Codes3

FIRE F216—Methods of Instruction for Emergency Services Training3

FIRE F218—Advanced Rescue Practices3

FIRE F232—Fire Fighter II3

EMS F261—EMT: Emergency Medical Technician II3

4. Minimum credits required69

* Student must earn a C grade or better in each course.

Note: Major electives must be approved by the student's advisor.

Public Safety

1. Complete the general university requirements (page 82).

2. Complete the A.A.S. degree requirements (page 86).

3. Complete the following program (major) requirements:*

a. Complete the following:

AVTY F231/EMS F257—Arctic Survival3

EMS F170—EMT: Emergency Medical Technician I6

EMS F176—Aeromedical Evacuations in Alaska1

FIRE F101—Principles of Emergency Services3

FIRE F105—Fire Prevention	3
FIRE F117—Rescue Practices	3
FIRE F127—Vessel Safety: Emergency Equipment and Procedures	1
FIRE F131—Firefighter I, Series I	3
FIRE F133—Firefighter I, Series II	3
FIRE F135—Firefighter I, Series III	3
FIRE F137—Firefighter I, Series IV	3
FIRE F218—Advanced Rescue Practices	3
JUST F110—Introduction to Justice	3
JUST F340—Rural Justice in Alaska	3
JUST F358—Juvenile Delinquency	3
b. Complete 9 credits from the following major electives:	
EMS F261—EMT: Emergency Medical Technician II	3
FIRE F123—Fire Investigations I	3
FIRE F151—Wildland Fire Control I	3
FIRE F212—Building and Fire Codes	3
FIRE F216—Methods of Instruction for Emergency Services Training	3
JUST F345W—Police Problems	3
JUST F352—Criminal Law	3
JUST F354—Procedural Law	3
4. Minimum credits required	68

* Student must earn a C grade or better in each course.

Wildland Fire Control

1. Complete the general university requirements (page 82).	
2. Complete the A.A.S. degree requirements (page 86).	
3. Complete the following program (major) requirements: a. Complete the following:	
EMS F170—EMT: Emergency Medical Technician I	6
FIRE F131—Firefighter I, Series I	3
FIRE F133—Firefighter I, Series II	3
FIRE F135—Firefighter I, Series III	3
FIRE F137—Firefighter I, Series IV	3
FIRE F151—Wildland Fire Control I	3
FIRE F153—Advanced Wildland Firefighter	3
FIRE F155—Wildland Fire Behavior	3
FIRE F157—Wildland Air Operations and Safety	3
FIRE F159—Wildland Fire Operations Function	3
FIRE F252—Wildland Fire Prevention	3
FIRE F254—Wildland Fire Finance Function	3
FIRE F262—Wildland Fire Control II	3
b. Complete 12 credits from the following major elective courses:	
FIRE F161—Wildland Fire Logistics Function	3
FIRE F165—Wildland Fire Planning Function	3
FIRE F216—Methods of Instruction for Emergency Services Training	3
FIRE F256—Wildland Fire Planning and Multiple Use Management	3
FIRE F258—Wildland Fuels Management	3
FIRE F270—Wildland Fire Command Function	3
4. Minimum credits required	69

* Student must earn a C grade or better in each course.

Note: Major electives and general electives must be approved by the student's advisor.

Minor

1. Complete the following:	
FIRE F131—Firefighter I, Series I	3
FIRE F133—Firefighter I, Series II	3
FIRE F135—Firefighter I, Series III	3
FIRE F137—Firefighter I, Series IV	3
EMS F170—Emergency Medical Technician I	6
2. Minimum credits required	18

ENTRY LEVEL WELDER

College of Rural and Community Development
Tanana Valley Campus
907-455-2809
www.tvc.uaf.edu/programs/weld/

Occupational Endorsement

Minimum Requirements for Occupational Endorsement: 21 credits

The entry level welder occupational endorsement provides training needed to succeed in the structural welding industry and to pass the American Welding Society test, used as an industry standard. The program also covers the safety requirements and mathematics needed in this high-demand occupation.

Occupational Endorsement Program

1. Complete the general university requirements (page 82).
2. Complete the occupational endorsement requirements (page 84).
3. Complete the following:

TTCH F131—Mathematics for the trades	3
WMT F103—Welding I Fundamentals and Safety	3
WMT F105—Welding II Basic Welding	3
WMT F130—Shielded Metal Arc Welding	3
WMT F140—Metal Fabrication	3
WMT F160—Gas Metal Arc Welding	3
WMT F290—Welding Proficiency	3
4. Minimum credits required

* Student must earn a C grade or better in each course.

FINANCIAL SERVICES REPRESENTATIVE

College of Rural and Community Development
Business Technologies Division
Bristol Bay Campus 907-842-5109
Chukchi Campus 907-442-3400
Interior-Aleutians Campus 907-474-5439
Kuskokwim Campus 907-543-4500
Northwest Campus 907-443-2201
Tanana Valley Campus
907-455-2800
www.tvc.uaf.edu/abus/

Occupational Endorsement

Minimum Requirements for Occupational Endorsement: 15 credits

The financial services representative program provides education and training to qualify students for customer service and teller positions in banks, credit unions and other financial institutions. This 15-credit occupational endorsement may be earned in one semester and represents half of the credits required for the applied business management certificate in finance. Upon completion of the course work, students may enroll in BA 253-Intership for an optional additional 1 – 3 credits and get practical work experience in a financial institution.

This program is open to students who can document a high school diploma or GED. In order to be hired in any financial institution graduates must be able to pass credit and criminal background checks.

Occupational Endorsement Program

1. Complete the general university requirements (page 82).
2. Complete the occupational endorsement requirements (page 84).

3. Complete the following courses*:

ABUS F120—Personal Finance and Investing.....	3
ABUS F160—Principles of Banking.....	3
ABUS F233—Financial Management	3
ABUS F155—Business Math (3) or MATH F100-level or above.....	3
ABUS F154—Human Relations (3) or ABUS F175—Customer Service	3
4. Minimum credits required15

* Student must earn a C grade or better in each course.

HIGH LATITUDE RANGE MANAGEMENT

College of Rural and Community Development
Northwest Campus
907-443-2201
www.nwc.uaf.edu

Certificate

Minimum Requirements for Certificate: 31 credits

A HLRM program certificate represents the completion of at least 31 credits in the conventional field-based techniques to inventory and monitor northern animal and plant populations combining traditional knowledge with contemporary studies necessary for entry-level natural resource jobs statewide. The certificate also emphasizes place-based domesticated ungulate husbandry and health, applicable regionally and statewide. This certificate may also serve as a bridge to a variety of natural science associate and baccalaureate programs

Admission is open to all individuals, especially those employed by or interested in employment with state, federal or tribal agencies or other local entities in rural Alaska which provide natural resources management services.

Students should have a high school diploma or GED and an interest in science-related fields. It is strongly recommended that students seeking admission to this program have completed two high school, lab-based science courses preferably in biology, chemistry or physics.

Students whose ACT/SAT scores are not high enough to place them into regular college level classes will be required to take the ASSET or COMPASS test and will be placed into the appropriate developmental level course.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements (page 84)*.
3. Complete the following requirements:
 - a. Complete the following communication course:
ENGL F111X—Introduction to Academic Writing3
 - b. Complete one of the following computation courses:
MATH F103X—Concepts & Contemporary Applications of Mathematics (3)
or ABUS F155—Business Math (3)3
 - c. Complete one of the following human relations courses:
ANTH/SOC F100X—Individual, Society, and Culture (3)
or ABUS F154—Human Relations (3).....3
4. Complete the following program (major) requirements:*

NRM F101—Natural Resources Conservation and Policy	3
BIOL F104X—Natural History of Alaska (4) or BIOL F104—Natural History of Alaska (3) and BIOL F104L—Natural History of Alaska Laboratory (1).....	4
HLRM F120—History of Domesticated Alaskan Ungulates.....	1
HLRM F130—Research Field Logistics	2

HLRM F140—High Latitude Range Management	2
HLRM F150—Alaskan Ungulate Husbandry	2
HLRM F160—Meat Production.....	2
HLRM F170—Health Issues in Domestic Herds	2
HLRM F201—Field Techniques for Range Management	2
HLRM F205—Research Methods in Range Management.....	2

5. Minimum credits required31
- * Student must earn a C grade or better in each course.

HUMAN SERVICES

College of Rural and Community Development
Bristol Bay Campus 907-842-5109
Chukchi Campus 907-442-3400
Interior-Aleutians Campus 907-474-5439
Kuskokwim Campus 907-543-4500
Northwest Campus 907-443-2201
Rural Behavioral Health 1-866-955-2050
Tanana Valley Campus 907-455-2882
Human Services Program 907-455-2842
www.tvc.uaf.edu/programs/hums/

A.A.S. Degree

Minimum Requirements for Degree: 63 credits

Students in the human services program receive skills-based training within a foundation of theory. After completing foundation courses, students select an area of concentration from the following: addictions counseling, behavioral health, or interdisciplinary concentration. Students learn interviewing and assessment, case management, crisis intervention, group counseling techniques and other specific skills needed within their concentration area.

The program prepares students for entry-level positions in human services agencies. Persons with a strong desire to help others, a sincere respect for mankind and a commitment to their own personal growth may find this field rewarding. They must be emotionally stable, flexible and interested in working with people of diverse social, cultural and economic backgrounds. Recovery from life traumas and addictions can be a positive attribute if the student has successfully worked through specific issues and is willing to continue personal growth.

Students who complete an addictions concentration are eligible for certification as chemical dependency counselor technicians through the Alaska Commission for Behavioral Health Certification.

Each concentration is available to B.A. degree students as a minor. The B.A. degree student must complete the concentration and three HUMS elective credits. Concentrations provide students with skills needed for employment. See minor requirements.

This degree program is delivered collaboratively within the UA system.

Major — A.A.S. Degree

Concentrations: Addictions Counseling, Behavioral Health and Interdisciplinary Concentration

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements (page 86).
3. Complete the following:*

HUMS F101—Introduction to Human Services	3
HUMS F102—Standards of Practice I.....	2
HUMS F120—Cultural Diversity in Human Services	3
HUMS F125—Introduction to Addictive Processes	3
HUMS F202—Standards of Practice II	1
HUMS F215—Individual Interviewing.....	3
HUMS F232—Human Service Practicum I	3

HUMS F233—Human Service Practicum II	3
HUMS F301—Ethics in Human Service.....	3
PSY 101—Introduction to Psychology	3
4. Complete one of the following family courses for Addictions Counseling and Interdisciplinary Concentration:*	
ECE F342O—Family Relationships	3
HUMS F140—Family Empowerment I	3
RHS F120—Family Systems I.....	2
PSY F240—Lifespan Developmental Psychology	3
5. Complete one of the following courses for Addictions Counseling and Interdisciplinary Concentration:*	
HUMS F205—Basic Principles of Group Counseling	3
HUMS F210—Crisis and Grief Counseling.....	3
HUMS F310—Management of Complex Cases.....	3
6. Complete two of the following courses for the Behavioral Health concentration:*	
HUMS F205—Basic Principles of Group Counseling	3
HUMS F210—Crisis and Grief Counseling.....	3
HUMS F310—Management of Complex Cases.....	3
7. Complete one of the following concentrations*: Addictions Counseling	
a. Complete the following:	
HUMS F105—Personal Awareness and Growth	3
HUMS F205—Basic Principles of Group Counseling	3
HUMS F260—History of Alcohol in Alaska	1
HUMS F261—Substance Abuse Assessment: ASAM PPC II	1
HUMS F263—Fetal Alcohol Spectrum Disorder (FASD).....	1
HUMS F266—Dual Diagnosis Intervention and Treatment	2
HUMS F305—Substance Abuse Counseling	3
HUMS F250—Current Issues in Human Services	1
or any 1 credit course approved by the Human Services Program	1
Behavioral Health	
a. Complete the following:	
HUMS F280—Foundations of Community Development and Prevention Practices for the Human Service Professional	3
HUMS F290—Case Management	3
HUMS F305—Substance Abuse Counseling	3
SOC F242—The Family: A Cross-Cultural Perspective (s)	3
b. Complete 3 elective credits (approved by Human Services Program Coordinator)	3
c. If the student is a social work or justice major, then choose one of the following in place of an elective:	
Social Work Majors:	
SWK F103—Introduction to Social Work (s)	3
Justice Majors:	
JUST F110—Introduction to Justice (s)	3
Interdisciplinary Concentration	
a. The interdisciplinary concentration option is made available to students based on their individual needs and goals for specific vocational preparation. The interdisciplinary concentration will include 12 credits at the F200 level or above from the disciplines of social work, psychology, sociology, justice or human services. Three credits from these disciplines can be at the F100 level.	
b. The interdisciplinary concentration will be reviewed and approved by the Human Services Program Coordinator, another human services faculty member and a faculty member representing at least one other discipline. Criteria for the approval of the interdisciplinary concentration is based on the candidate's identified vocational and curricular needs.	
c. Examples	
HUMS or other acceptable courses that meet a student's specific need: Workforce Specialty, Family Specialty, Restorative Justice, etc.	
Courses or a certificate from the UA system (UAA, RHS, PWSCC, etc.) that is aligned with the human services degree program.	
Example of possible interdisciplinary concentration of human services in restorative justice:	
HUMS F210—Crisis and Grief Counseling.....	3
HUMS F290—Case Management	3
JUST F110—Introduction to Justice.....	3
JUST F251—Criminology	3
SOC F201—Social Problems (s)	3
8. Minimum credits required	63
<i>* Student must earn a C grade or better in each course.</i>	
For students with the Rural Human Services Certificate (up to 21 credits accepted as a block of courses):*	
1. Complete the general university requirements (page 82).	
2. Complete the A.A.S. degree requirements (page 86).	
3. Complete the following:*	
HUMS F101—Introduction to Human Services.....	3
HUMS F102—Standards of Practice	2
HUMS F202—Standards of Practice II	1
HUMS F233—Human Service Practicum II	3
HUMS F301—Ethics in Human Service.....	3
PSY F101—Introduction to Psychology	3
PSY F240—Lifespan Developmental Psychology	3
4. Complete three of the following courses:*	
HUMS F280—Foundations of Community Development and Prevention Practices for the Human Services Professional.....	3
HUMS F290—Case Management	3
HUMS F305—Substance Abuse Counseling	3
HUMS F250—Current Issues in Human Services	3
or other approved course	3
5. Optional (For BA Seeking Students):	
Social Work Majors: SWK F103—Introduction to Social Work (s)	3
or other Social Work approved course.....	3
Justice Majors: JUST F110—Introduction to Justice (s)	3
6. Minimum credits required	63
<i>* Student must earn a C grade or better in each course.</i>	
Minor	
1. Complete one concentration in human services	15
2. Complete HUMS elective credits	3
3. Minimum credits required	18
<i>Note: The Alaska Commission for Behavioral Health Certification has approved the following courses for up to 45 training hours each toward certification or recertification of Chemical Dependency Counselors in the state of Alaska.</i>	
4. HUMS F125—Introduction to Addictive Processes	3
HUMS F205—Basic Principles of Group Counseling	3
HUMS F210—Crisis and Grief Counseling.....	3
HUMS F215—Individual Interviewing.....	3
HUMS F260—History of Alcohol in Alaska	1
HUMS F301—Ethics in Human Service	3
HUMS F305—Substance Abuse Counseling	3
<i>Note: Chemical Dependency Counselors currently certified by the Alaska Commission for Behavioral Health Certification are eligible for transfer credit toward the human services degree. Contact the human services program coordinator at 907-455-2842 for more information.</i>	

INFORMATION TECHNOLOGY SPECIALIST

College of Rural and Community Development
 Bristol Bay Campus 907-842-5109
 Chukchi Campus 907-442-3400
 Interior-Aleutians Campus 907-474-5439
 Kuskokwim Campus 907-543-4500
 Northwest Campus 907-443-2201
 Tanana Valley Campus 907-455-2800
www.tvc.uaf.edu/its/

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 30 credits; for A.A.S. Degree: 60 – 61 credits

The Information Technology Specialist certificate and associate programs teach students how to use, support, implement, and troubleshoot the computer and information technology systems found in educational, governmental and corporate settings.

The certificate program focuses on teaching students the essential skills required to effectively use and troubleshoot computer and computer applications. Students completing the certificate program can continue their education in the Information Technology Specialist A.A.S. or the Applied Business A.A.S. degree program.

The A.A.S. degree program prepares individuals to implement, support, and troubleshoot computer and information technology systems and obtain employment as an IT professional. Associate degrees in computer technology support, network and system administration, and web development and administration are offered.

Students entering either the certificate or A.A.S. degree program should meet with a faculty advisor to discuss program content requirements and develop an education plan that matches the current skills and goals of the student. Students entering the certificate program are expected to have basic computer skills equivalent to CIOS F150. While not a requirement, it is recommended that students applying for admission into the associate program have computer experience equivalent to CIOS F128.

This degree program is delivered collaboratively within the UA system.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements. (See page 84. As part of the human relations requirement, complete ABUS F154 or ANTH F100X/SOC F100X or approved human relations course.)
3. Complete the following program (major) requirements*:
 - a. Complete the following essentials in computing courses:
 CIOS F128—Using and Configuring PC Operating Systems or CITS F201—Microcomputer Operating Systems Support 3
 CIOS F130—Microcomputer Word Processing.....3
 CIOS F135—Microcomputer Spreadsheets3
 CIOS F146—Using Internet Tools and Technologies (3)
 or CITS F220—Implementing Internet Tools and Technologies3
 - b. Complete 9 credits from the following or program coordinator approved:
 CIOS F133—Microcomputer Presentation Software (3)
 CIOS F189—Microcomputer Applications: Topics ** (3)
 CIOS F233—Desktop Publishing (3)
 CIOS F240—Microcomputer Databases (3)
 CIOS F255—Microcomputer Graphics (3)
 CIOS F258—Digital Photography (3)
 CITS F201—Microcomputer Operating Systems Support (3)
 CITS F202—Microcomputer Hardware Support (3)
 CITS F203—Information Technology Support Fundamentals (4)

CITS F204—Introduction to Network Support and Administration (3)	
CITS F220—Implementing Internet Tools and Technologies (3)	
CITS F221—Graphics and Multimedia for the Web (3)	9
CITS F222—Internet Authoring and Design (3)	
4. Pass a certification review requiring students to demonstrate proficiency in the effective use of applications, operating systems, and the Internet.	
5. Minimum credits required	30
Major — A.A.S. Degree	
Concentrations: Computer Technology Support, Network and System Administration, Web Development and Administration	
Computer Technology Support	
1. Complete the general university requirements (page 82).	
2. Complete the A.A.S. degree requirements. (See page 86. As part of the human relations requirement complete ABUS F154, ANTH F100X/SOC F100X or approved human relations course.)	
3. Complete the following program (major) requirements:*	
a. Complete the following computer technology support courses:	
CITS F201—Microcomputer Operating Systems Support (3) and CITS F202—Microcomputer Hardware Support (3) or CITS F203—Information Technology Support Fundamentals (4)	4-6
CITS F204—Introduction to Network Support and Administration(3)	
or CITS F241—Networking and LAN Infrastructure Basics	3-4
CITS F205—Introduction to Microcomputer Programming (3) or CS F103—Introduction to Computer Programming (3) or CS F201—Computer Science I (3) or CS F205—C Programming (3).....	3
b. Complete 15-16 credits from the following or program coordinator approved:	
CITS F212—Server Operating Systems (3)	
CITS F219—Microcomputer Operating Systems: Topics *** (3)	
CITS F220—Implementing Internet Tools and Technologies (3)	
CITS F221—Graphics and Multimedia for the Web (3)	
CITS F222—Internet Authoring and Design (3)	
CITS F224—Web Scripting (3)	
CITS F225—Web Databases and Programming (3)	
CITS F228—Advanced Website Design and Development (3)	
CITS F240—System and Network Services Administration (3)	
CITS F241—Networking and LAN Infrastructure Basics (4)	
CITS F242—Routers and Routing Concepts (4)	
CITS F243—Intermediate Networking and LAN Infrastructure (4)	
CITS F244—Advanced Networking Infrastructure Services (4)	
CITS F249—Networking and Communications: Topics** (3)	
CITS F261—Computer and Information Security (3)	
CITS F265—Directory Services Administration (3)	
CITS F282—IT Troubleshooting Skills (3)	
CITS F289—Information Technology: Topics (1-3) **	15-16
c. Complete the following IT professional courses:	
CITS F281—Computer Technical Support.....	3
CITS F284—Independent Project (3)	
or CITS F285—Cooperative Work Experience (3)	3
d. Complete CIOS, CITS or CS electives	6
4. Complete general electives	4-8
5. Pass a certification review requiring students to demonstrate proficiency in the following skill areas: Operating Systems and	

Hardware Support and Troubleshooting; Network Support and Troubleshooting; Independent Thinking; Human Relations and Support; and Professional Practices.	
6. Minimum credits required	60
Network and System Administration	
1. Complete the general university requirements (page 82).	
2. Complete the A.A.S. degree requirements. (See page 86. As part of the human relations requirement complete ABUS F154 or ANTH F100X/SOC F100X or approved human relations course.)	
3. Complete the following program (major) requirements: [*]	
a. Complete the following system administration courses: ^{**}	
CITS F204—Introduction to Network Support and Administration.....	3
CITS F205—Introduction to Microcomputer Programming (3) or CS F103—Introduction to Computer Programming (3) or CS F201—Computer Science I (3) or CS F205—C Programming (3).....	3
CITS F212—Server Operating Systems (3)	3
CITS F240—System and Network Services Administration	3
CITS F261—Computer and Information Security	3
CITS F265—Directory Services Administration.....	3
b. Complete the following network infrastructure courses:	
CITS F241—Networking and LAN Infrastructure Basics	4
CITS F242—Routers and Routing Concepts.....	4
CITS F243—Intermediate Networking and LAN Infrastructure. 4	
CITS F244—Advanced Network Infrastructure Services	4
c. Complete the following IT Professional courses:	
CITS F281—Computer Technical Support.....	3
CITS F284—Independent Project (3) CITS F285—Cooperative Work Experience.....	3
d. Complete 6 credits of CITS or CS electives	6
4. Pass a certification review requiring students to demonstrate proficiency in the following skill areas: Network Infrastructure and System Administration Skills, Independent Thinking Skills, Human Relations and Support Skills, Professional Practices	
5. Minimum credits required	61
CITS F222—Internet Authoring and Design.....	
CITS F224—Web Scripting	
CITS F225—Web Databases and Programming	
CITS F228—Advanced Website Design and Development	
c. Complete the following IT Professional courses:	
CITS F281—Computer Technical Support.....	3
CITS F284—Independent Project (3) or CITS F285—Cooperative Work Experience	3
d. Complete 3 credits of CITS or CS electives	3
4. Pass a certification review requiring students to demonstrate proficiency in the following skill areas: Web Development and System Administration Skills, Independent Thinking Skills, Human Relations and Support Skills, Professional Practices	
5. Minimum credits required	60
<i>* Student must earn a C grade or better in each course.</i>	
<i>** May be repeated for different topics.</i>	
<i>*** Students are expected to have completed CITS F201 and F202 or CITS F203 or possess equivalent skills prior to beginning coursework in this area.</i>	
<i>Note: Upon admission to the certificate or degree program, each student will be assigned a mentor/committee chairperson who will be responsible for determining the student's current level of competency in the various skill areas; assisting the student in determining the courses/experiences necessary for gaining competency in the deficient skill areas; setting up the student's committee to consist of the mentor and at least one other individual who may be a UA faculty member, an adjunct faculty member, or an expert in the student's community; arranging for practica experiences in the student's community; and organizing the committee's final assessment of the student's work and recommending award of the certificate or degree.</i>	
INSTRUMENTATION TECHNOLOGY	
College of Rural and Community Development	
Tanana Valley Campus	
907-455-2906	
www.tvc.uaf.edu/programs/protech/instrument.html	
Certificate	
Minimum Requirements for Certificate: 32 Credits	
The instrumentation technology program will develop entry-level skills in industrial instrumentation. Courses combine the technical know-how, the use of state-of-the-art equipment and hands-on experience.	

Web Development and Administration

1. Complete the general university requirements (page 82).
 2. Complete the A.A.S. degree requirements. (See page 86. As part of the human relations requirement complete ABUS F154 or ANTH F100X/SOC F100X or approved human relations course.)
 3. Complete the following program (major) requirements:
 - a. Complete the following system administration courses:***

CITS F204—Introduction to Network Support and Administration.....	3
CITS F205—Introduction to Microcomputer Programming (3)	
or CS F103—Introduction to Computer Programming (3)	
or CS F201—Computer Science I (3)	
or CS F205—Programming (3)	3
CITS F212—Server Operating Systems.....	3
CITS F240—System and Network Services Administration	3
CITS F261—Computer and Information Security	3
CITS F265—Directory Services Administration.....	3
 - b. Complete the following web development courses:

CITS F220—Implementing Internet Tools and Technologies ...	3
CITS F221—Graphics and Multimedia for the Web	3

INSTRUMENTATION TECHNOLOGY

College of Rural and Community Development
Tanana Valley Campus
907-455-2906
www.tvc.uaf.edu/programs/protech/instrument.html

Certificate

Minimum Requirements for Certificate: 32 Credits

The instrumentation technology program will develop entry-level skills in industrial instrumentation. Courses combine the technical know-how, the use of state-of-the-art equipment and hands-on experience necessary for work in a variety of industrial instrumentation fields.

Students are taught the necessary objectives and skills sets required to take the entry-level Instrumentation, Systems and Automation Society certificate examination. This is a nationally recognized certification by industry partners; individuals holding this certification are sought after by industry partners to fill instrumentation technician positions worldwide.

As the process industries expand and automate, the need for qualified technicians increases. This need is currently being addressed by the Industrial Instrumentation & Controls Technology Alliance. TVC and the process technology program are active members of this national alliance.

Certificate Program

1. Complete the general university requirements (page 82).
 2. Complete the certificate requirements (page 84).
 3. Complete the following program requirements:

ELT F101—Basic Electronics: DC Physics	4
ELT F102—Basic Electronics: AC Physics	4
ELT F246—Electronic Industrial Instrumentation	3
PRT F140—Industrial Process Instrumentation I	3
PRT F144—Industrial Process Instrumentation II	3

PRT F240—Industrial Process Instrumentation III.....	3
PRT F248—Valve Maintenance and Instrumentation	3
4. Minimum credits required.....	32

INTERDISCIPLINARY STUDIES

Office of Interdisciplinary Programs
907-474-7716
fyinds@uaf.edu
www.uaf.edu/advising/degree/
www.uaf.edu/gradsch/classes/interdisciplinary-program/

A.A.S. Degree

Minimum Requirements for Degree: 60 credits

The interdisciplinary program provides flexibility to undergraduate and graduate students who have well-defined goals that do not fit into one of the established majors offered by the university. Interdisciplinary Studies, both graduate and undergraduate programs, is located in the Graduate School office. Help with the application process, contact information for faculty advisors and assistance for interdisciplinary students is available at 907-474-7716 or see www.uaf.edu/gradsch/classes/interdisciplinary-program/.

Major

1. Contact the UAF Office of the Graduate School and Interdisciplinary Programs for materials and procedures.
2. Contact three faculty members to serve as the interdisciplinary studies committee.
3. Prepare rationale/justification letter.
4. Conduct committee meeting to finalize degree proposal, title of degree and assessment plan.
5. Submit proposal to appropriate dean for approval.
6. Submit to the vice provost for final approval.
7. Minimum credits required.....60

LAW ENFORCEMENT ACADEMY

College of Rural and Community Development
Tanana Valley Campus
907-455-2823
www.tvc.uaf.edu/programs/lawacad/

Alaska Police Standards Council Certification

Minimum Requirements for Certification: 16 credits

The Law Enforcement Academy prepares students for a career in law enforcement in the state of Alaska. APSC certification will allow a qualified candidate to work as a commissioned officer in any of approximately 65 state and municipal law enforcement organizations.

The Law Enforcement Academy is an intense semester of full time study. Students attend class 40 hours per week for one semester. The certification is approved by the Alaska Police Standards Council in compliance with Title 13.85.050 of the Alaska Administrative Code. Courses are not offered separately but must be taken as part of the entire Law Enforcement Academy package.

Special admission, licensing, or certification requirements may apply to students in this program. Applicants should familiarize themselves with these and speak with a faculty advisor if they have any questions or concerns.

Law Enforcement Certification by the Alaska Police Standards

Council

1. Complete the following:

LE F110—Cultural and Behavioral Strategies for Law Enforcement Officers	1
LE F115—Enforcement Skills for Law Enforcement Officers	4
LE F120—Law Enforcement Operations.....	4
LE F125—Basic Police Procedures	3
LE F205—Criminal Law for Police Officers.....	4
2. Minimum credits required16

MINING APPLICATIONS AND TECHNOLOGIES

College of Rural and Community Development
Tanana Valley Campus
907-455-2906
www.tvc.uaf.edu/programs/protech/

Certificate

Minimum Requirements for Certificate: 31 or 37 credits

This program prepares students for employment in the mining technology industry and provides career development and personal enrichment for experienced miners and workers within the mineral industry. Possible career paths for certificate graduates include entry-level positions with exploration, mining, environmental and consulting companies.

Holders of this certificate will be trained to meet the anticipated demand for workers in open pit mining, surface coal mining, underground metal mining, sand and gravel, and placer mining. Two options are available: surface and underground mining techniques is intended for the miner, and mineral processing operations is intended for mineral process operators. After completing AMIT F109 and/or AMIT F129, students will receive the Mine Safety Health Association certificate. Contact the process technology department at 907-455-2868 for information on the MSHA certificate.

Certificate Program

Options: Surface and Underground Mining Techniques or Mineral Processing Operations

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements (page 84).
3. Complete the following program requirements for either option A or option B:

Option A: Surface and Underground Mining Techniques

AMIT F101—Introduction to Mining	3
AMIT F109—Underground Mine Safety	1
AMIT F110—Underground Mining I	3
AMIT F120—Explosives I	3
AMIT F129—Surface Mining Safety	1
AMIT F130—Surface Mining Operations	3
AMIT F155—Drilling Technology	3
AMIT F210—Underground Mining II	3
AMIT F220—Explosives II	3
AMIT F230—Field Methods	2

Option B: Mineral Processing Operations

AMIT F101—Introduction to Mining	3
AMIT F129—Surface Mining Safety	1
AMIT F130—Surface Mining Operations	3
AMIT F135—Introduction to Mining Systems and Equipment	4
AMIT F140—Environmental Permitting	1
AMIT F145—Introduction to Mineral Beneficiation	3
AMIT F154—Water Quality and Flocculants	3

AMIT F162—Geochemical Sampling	1
AMIT F230—Field Methods	2
AMIT F231—Heap Leaching.....	1
PRT F101—Introduction to Process Technology	3
PRT F110—Introduction to Occupational Safety, Health and Environmental Awareness.....	3
PRT F140—Industrial Process Instrumentation I	3
4. Minimum credits required	31 or 37

NATIVE LANGUAGE EDUCATION

College of Liberal Arts
Department of Alaska Native Languages
907-474-7874
www.uaf.edu/anlc/classes.html

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 30 credits; for Degree: 60 credits

The Native language education program trains teachers of Native language and culture, providing course work in Athabascan, Inupiaq Eskimo or Central Yup'ik Eskimo. The certificate and degree are recognized by some Alaska school districts and serve as steps toward a four-year degree. Candidates for the Central Yup'ik option must score advanced oral proficiency on an oral proficiency exam before being admitted into the program.

Certificate Program

Concentrations: Athabascan, Inupiaq Eskimo, Central Yup'ik Eskimo

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements. (See page 84. As part of the certificate requirements, the communication, computation, and human relations content is embedded in some of the major required courses for this program.)
3. Complete one of the following concentrations:*

Athabascan

- a. Candidates must demonstrate proficiency or complete a two-semester sequence in the language of the degree.
 - b. Complete the following program (major) requirements:
- | | |
|--|---|
| ANL F108—Beginning Athabascan Literacy | 3 |
| ANL F199—Practicum in Native Language Education..... | 6 |
| ANL F208—Advanced Athabascan Literacy | 3 |
| ANL F251—Introduction to Athabascan Linguistics | 3 |
| ANL F256—Alaska Native Languages: History, Status and Maintenance..... | 3 |
| ANL F287—Teaching Methods for Alaska Native Languages...3 | |
| ANL F288—Curriculum and Materials Development for Alaska Native Languages..... | 3 |
| ED F299—Practicum in Education | 6 |

Inupiaq Eskimo

- a. Candidates must demonstrate proficiency or complete a two-semester sequence in the language of the degree.
 - b. Complete the following program (major) requirements:
- | | |
|--|---|
| ANL F199—Practicum in Native Language Education..... | 6 |
| ANL F256—Alaska Native Languages: History, Status and Maintenance..... | 3 |
| ANL F287—Teaching Methods for Alaska Native Languages...3 | |
| ANL F288—Curriculum and Materials Development for Alaska Native Languages..... | 3 |
| ED F299—Practicum in Education | 6 |
| ESK F118—Inupiaq Orthography | 3 |
| ESK F218—Inupiaq Composition | 3 |

Eskimo linguistics elective.....	3
----------------------------------	---

Central Yup'ik Eskimo

- a. Demonstrate advanced oral/aural proficiency in Yup'ik.
 - b. Complete the following program (major) requirements:
- | | |
|--|---|
| ESK F109—Orthography..... | 3 |
| ESK F130—Beginning Yup'ik Grammar | 3 |
| ESK F208—Yup'ik Composition..... | 3 |
| ESK F250—Yup'ik Literature for Children..... | 3 |
| ESK F251—Teaching Yup'ik Reading and Writing | 3 |
| ANL F199—Practicum in Native Language Education..... | 3 |
| ANL F256—Alaska Native Languages: History, Status and Maintenance..... | 3 |
| ANL F287—Teaching Methods for Alaska Native Languages...3 | |
| ANL F288—Curriculum and Materials Development for Alaska Native Languages..... | 3 |
| ED F299—Practicum in Education | 3 |
4. Minimum credits required

Major — A.A.S. Degree

Concentrations: Athabascan, Inupiaq Eskimo, Central Yup'ik Eskimo

1. Complete the general university requirements (page 82).
 2. Complete the A.A.S. degree requirements (page 86).
 3. Complete one of the following concentrations:*
- | | |
|---|---|
| Athabascan | |
| a. Candidates must demonstrate proficiency or complete a two-semester sequence in the language of the degree. | |
| b. Complete the following program (major) requirements: | |
| ANL F108—Beginning Athabascan Literacy | 3 |
| ANL F199—Practicum in Native Language Education..... | 6 |
| ANL F208—Advanced Athabascan Literacy | 3 |
| ANL F251—Introduction to Athabascan Linguistics | 3 |
| ANL F256—Alaska Native Languages: History, Status and Maintenance..... | 3 |
| ANL F287—Teaching Methods for Alaska Native Languages...3 | |
| ANL F288—Curriculum and Materials Development for Alaska Native Languages..... | 3 |
| ED F299—Practicum in Education | 6 |

Inupiaq Eskimo

- a. Candidates must demonstrate proficiency or complete a two-semester sequence in the language of the degree.
 - b. Complete the following program (major) requirements:
- | | |
|--|---|
| ANL F199—Practicum in Native Language Education..... | 6 |
| ANL F256—Alaska Native Languages: History, Status and Maintenance..... | 3 |
| ANL F287—Teaching Methods for Alaska Native Languages...3 | |
| ANL F288—Curriculum and Materials Development for Alaska Native Languages..... | 3 |
| ED F299—Practicum in Education | 6 |
| ESK F118—Inupiaq Orthography | 3 |
| ESK F218—Inupiaq Composition | 3 |

Central Yup'ik Eskimo

- a. Demonstrate advanced oral/aural proficiency in Yup'ik.
 - b. Complete the following program (major) requirements:
- | | |
|--|---|
| ESK F109—Orthography..... | 3 |
| ESK F208—Yup'ik Composition..... | 3 |
| ESK F250—Yup'ik Literature for Children..... | 3 |
| ESK F251—Teaching Yup'ik Reading and Writing | 3 |
| ANL F199—Practicum in Native Language Education..... | 3 |
| ANL F256—Alaska Native Languages: History, Status and Maintenance..... | 3 |
| ANL F287—Teaching Methods for Alaska Native Languages...3 | |

ANL F288—Curriculum and Materials Development for Alaska Native Languages.....	3
ED F299—Practicum in Education	3
4. Minimum credits required.....	60
* Student must earn a C grade or better in each course.	
See Alaska Native Languages	

7. Complete five of the following:*	
PLS F203—Torts	3
PLS F213—Criminal Law for Paralegals	3
PLS F215—Contracts/Real Property.....	3
PLS F240—Family Law	3
PLS F242—Employment and Administrative Law for Paralegals	3
PLS F250—Probate Law	3
PLS F275—Business Organizations.....	3
PLS F293—(special topics course)	3
8. Minimum credits required	62

* Student must earn a C grade or better in each PLS, PS, JUST or JRN course.

Note: Students interested in the paralegal studies degree should consult the program coordinator before enrolling in paralegal courses. Transfer credits for paralegal courses completed at other institutions are subject to approval by the program coordinator. No more than 15 credit hours of paralegal courses completed at other institutions will be applied toward completion of the A.A.S. degree in paralegal studies at UAF.

Minor

1. Complete the following:	
PLS F102—Introduction to Paralegal Studies	3
PLS electives	15
2. Minimum credits required	18

PARAMEDIC ACADEMY

College of Rural and Community Development	
Tanana Valley Campus	
907-455-2895	
www.tvc.uaf.edu/programs/ems/	

The paramedic academy prepares students to take the national paramedic exam. A passing score qualifies students to apply for a paramedic license through the Alaska State Medical Board.

The paramedic academy offers the highest level of education available to prepare for work in the pre-hospital environment. The most common entry level positions for paramedics are in an ambulance within an emergency response system or in a non-emergency transport service. Paramedics also work in doctors' offices, urgent care clinics, hospital emergency rooms, intensive care units, laboratories, aeromedical transport services and safety departments in corporate and industrial settings.

UAF's paramedic academy offers an intensive three-semester course of full-time study. Students may apply their paramedic course credits to more advanced degrees including the A.A.S. in emergency services.

The paramedic academy meets or exceeds the national standards curriculum for the EMT-paramedic. During the first two semesters, the student will complete 500 hours of classroom education and 250 hours of clinical experience. The clinical component includes rotations in a hospital setting, including placements in the emergency room, respiratory therapy, operating room and intensive care unit. In the third semester the student will complete a field internship outside Alaska with an ambulance company supervised by paramedic field preceptors. During the internship the student is responsible for all costs of housing, travel and living expenses in addition to tuition and fees.

The paramedic student should be emotionally stable and have good dexterity, agility and physical coordination. Paramedics must also have the strength to lift and carry heavy loads.

Special admission, licensing or certification requirements may apply to students in this program. Applicants should familiarize themselves with these and speak to a faculty advisor if they have questions or concerns.

PARALEGAL STUDIES

College of Rural and Community Development
Tanana Valley Campus
907-455-2835
www.tvc.uaf.edu/programs/paralegal/

A.A.S. Degree

Minimum Requirements for Degree: 62 credits

The paralegal studies program trains students for employment as paralegals to assist in the delivery of legal services under the supervision of a practicing lawyer, and provides continuing education and upgrading of skills for paralegals already employed. In addition, the program offers practical law-related topics for UAF students whose main focus is in other areas of study such as political science and justice.

Paralegals and legal assistants are not authorized to provide direct legal services to the public. However, they are qualified to perform rudimentary legal research and produce drafts of letters, office memoranda, pleadings, contracts, wills and similar documents. Paralegals conduct client and witness interviews, engage in basic fact-finding and investigation, and assist in trial preparation and discovery. At all times they remain cognizant of the ethical responsibilities owed by the supervising lawyer to clients, other lawyers and the court system.

The UAF paralegal studies program does not train lawyers or legal administrators. The associate (A.A.S.) degree is approved by the American Bar Association. The minor is not designed to prepare students to work as paralegals and is not approved by the American Bar Association.

Major — A.A.S. Degree

1. Complete ENGL F111X with a grade of C or better prior to admission to the program.	
2. Complete the general university requirements (page 82).	
3. Complete the A.A.S. degree requirements (page 86).	
4. Complete the following:*	
PLS F102—Introduction to Paralegal Studies	4
PLS F103—Introduction to Paralegal Skills	3
PLS F105—Paralegal Ethics	2
PLS F210—Civil Procedure	3
PLS F260—Computers in the Law Office.....	3
PLS F280—Intermediate Legal Research and Writing for Paralegals	3
PLS F285—Advanced Legal Writing	2
PLS F299—Paralegal Studies Internship	3
PS F101—Introduction to American Government.....	3
5. Complete either:	
PS F303—Politics and the Judicial Process (3)	
or PS F300X—Ethics and Society (3)	
or JUST F300X—Ethics and Justice (3)	3
6. Complete either:	
PS F435W—Constitutional Law I: Institutions and Government Powers (3)	
or PS F436—Constitutional Law II: Civil Rights and Civil Liberties (3)	
or JRN F413—Mass Media Law (3).....	3

Admission Requirements

Application packets for the paramedic academy may be obtained from Tanana Valley Campus, call 907-455-2895 or e-mail at ffcmk@uaf.edu. Applications will be reviewed by TVC's Paramedic Academy Advisory Board. In keeping with certification requirements, class size is limited to 16 students. Completion of EMS F170—Emergency Medical Technician I (6 credits) is a prerequisite for the paramedic academy. Completion of HLTH F114—Fundamentals of Anatomy and Physiology (4 credits) is recommended.

Academy Requirements

1. Complete the following:

EMS F181—Clinical Rotation I	4
EMS F183—Clinical Rotation II	4
EMS F280—Paramedicine I	12
EMS F282—Paramedicine II	12
EMS F283—Paramedic Internship	12
2. Minimum credits required 44

PILOTING, PROFESSIONAL

College of Rural and Community Development
Tanana Valley Campus
907-455-2851
www.tvc.uaf.edu/programs/pilot/

A.A.S. Degree

Minimum Requirements for Degree: 60 credits

The professional piloting program offers a series of aviation piloting courses ranging from ground school classes for private through commercial flying, arctic survival, weather and aircraft maintenance. Rated pilots or military aviators may be eligible for credit based upon experience and FAA certificates, which may be applied towards an associate of applied science degree in professional piloting or a minor in aviation technology. See department personnel for details. UAF does not offer flight instruction.

A minor in aviation technology will give students an opportunity to become familiar with the field of aviation, with particular emphasis on the use of aviation as a tool and economic process within the Alaska environment.

Major — A.A.S. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements (page 86).
3. Complete the following program (major) requirements:

a. AVTY F100—Private Pilot Ground School	4
AVTY F102—Commercial Ground Instruction	3
AVTY F155—Preventive Maintenance for Pilots (3) or AFPM advisor-approved course(s) (3)	3
AVTY F200—Instrument Ground School	4
AVTY F231—Arctic Survival	3
AVTY F235—Elements of Weather	3
- b. Complete 15 credits of program approved major specialty electives* (see web page or contact department for suggested list of courses, many of which the applicant may obtain credit for based upon experience or ratings.)
4. Complete general electives 10
5. Minimum credits required 60

* Student must earn a C grade or better in each course.

Minor

Aviation Technology

1. Complete the following foundation courses:

AVTY F100—Private Pilot Ground School	4
---	---
2. Complete the following core courses:

AVTY F155—Preventive Maintenance for Pilots	3
AVTY F231—Arctic Survival	3
AVTY F235—Elements of Weather	3
3. Complete 3 credits from the following electives:

AVTY Elective (3) or AFPM advisor approved elective (3)	3
--	---
4. Minimum credits required 16

POWER GENERATION

College of Rural and Community Development
Tanana Valley Campus
907-455-2906
www.tvc.uaf.edu/programs/pgen/

Certificate

Minimum Requirements for Certificate: 37 credits

The power generation program will help students develop entry-level skills needed in industrial and commercial electrical power generation and maintenance. Courses combine the technical know-how and hands-on experience necessary to develop entry level workers in a variety of power generation and industrial fields. Students will become familiar with the operation and maintenance of the standard equipment encountered in the power generation industry.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements (page 84).
3. Complete the following program (major) requirements:

PGEN F101—Intro to Power Generation, Distribution & Alternative Energy	3
PGEN F102—Basic Electricity for Power Generation Operators	4
PGEN F103—Introduction to Power Generation: Maintenance	4
PGEN F104—Gas & Steam Turbines; Co-Generation and Combined Cycle Technologies	4
PRT F110—Introduction to Occupational Safety, Health and Environmental Awareness	3
PRT F120—Water Quality Management for Process Industries	4
PRT F140—Industrial Process Instrumentation I	3
WMT F103—Welding I	3
4. Minimum credits required 37

* Student must earn a C grade or better in each course.

PROCESS TECHNOLOGY

College of Rural and Community Development
Tanana Valley Campus

907-455-2906

www.tvc.uaf.edu/programs/protech/

A.A.S. Degree

Minimum Requirements for Degree: 63 credits

The process technology program prepares students for employment as operations technicians in the process industry, which includes oil and gas production, mining and milling, transportation and refining, chemical manufacturing, power generation, utilities, wastewater treatment facilities maintenance, and food processing.

This A.A.S. degree program incorporates technical and academic courses covering topics such as pumps and turbines, instrumentation, safety and quality control. Summer internships give students valuable practical experience and exposure to the true nature of process technology careers.

Major — A.A.S. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements (page 86).
3. Demonstrate competence in computer technology skills (through the Process Technology program assessment) or complete one of the following:
 DRT F110—Computer Literacy for Technicians (3)
 or CIOS F150—Computer Business Applications (3)
 or a program advisor-approved computer applications course (3).....3
4. Complete the following program major requirements*:
 PHYS F115X—Physical Science I (4)
 and PHYS F116X—Physical Science II (4)
 or 8 credits of program advisor-approved natural science courses.....8
- PRT F101—Introduction to Process Technology3
- PRT F110—Introduction to Occupational Safety, Health and Environmental Awareness.....3
- PRT F130—Process Technology I: Equipment4
- PRT F140—Industrial Process Instrumentation I3
- PRT F144—Industrial Process Instrumentation II3
- PRT F230—Process Technology II: Systems4
- PRT F231—Process Technology III: Operations4
- PRT F250—Process Technology Troubleshooting3
- PRT F255—Process Technology Quality1
- Major elective credits**9
5. Minimum credits required:63

* Student must earn a C grade or better in each course.

** Electives must be approved by the Process Technology Program advisor.

RENEWABLE RESOURCES

College of Rural and Community Development

Rural and Economic Development Division

Fairbanks Campus 907-474-6528

Bristol Bay Campus 800-478-5109 or 907-842-5109

Chukchi Campus 907-442-3400

Interior-Aleutians Campus 907-474-5439

Kuskokwim Campus 907-543-4500

Northwest Campus 907-443-2201

www.uaf.edu/rural/

A.A.S. Degree

Minimum Requirements for Degree: 60 Credits

The renewable resources degree program is offered by the College of Rural and Community Development on the Fairbanks campus and through rural campuses. Students interested in the degree should

first contact a faculty advisor at the Bristol Bay Campus (toll free number above) to discuss program content, requirements and expectations. This two-year A.A.S. degree program helps students gain employment with state, federal or tribal resource management agencies, Alaska Native Claims Settlement Act (ANCSA) corporations or other entities. For those already employed in this field, this program provides an opportunity to improve job skills.

Major — A.A.S. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements. (See page 86. As part of the A.A.S. degree requirements, complete MATH F103X or MATH F107X, CHEM F103X or CHEM F105X.)
3. Complete the following program (major) requirements:*
 - a. Complete the following:

ECON F235—Introduction to Natural Resource Economics....3
NRM F101—Natural Resources Conservation and Policy3
NRM F204—Public Lands Law and Policy3
RD F255—Rural Alaska Land Issues3
RD F280—Resource Management Research Techniques.....3
 - b. Complete one course from each of the following groups:

Group 1
BIOL F104—Natural History of Alaska.....3
BIOL F104X—Natural History of Alaska4
BIOL F115X—Fundamentals of Biology I.....4
Group 2
GEOG F205—Elements of Physical Geography.....3
GEOG F205X—Elements of Physical Geography4
GEOS F100X—Introduction to Earth Science4
NRM F380W—Soils and the Environment3
Group 3
NRM F102—Practicum in Natural Resources Management1 – 2
WLF F304—Wildlife Internships.....1 – 3
- c. Complete the following:

CIOS F100—Introduction to Personal Computers (1)
and CIOS F111—Computer Software for Beginners (2)
or CIOS F150—Computer Business Applications (3).....3
FISH F101—Introduction to Fisheries (3)
and WLF F101—Survey of Wildlife Science (1)
or ABUS F223—Real Estate Law (3)
and RD F256—Co-Management of Renewable Resources (3)
or BIOL F271—Principles of Ecology (4)
and WLF F201—Wildlife Management Principles (3)....4 – 7
- d. Complete 9 – 14 credits from the following courses:

ANS F310—The Alaska Native Lands Settlement.....3
ANTH F242—Native Cultures of Alaska.....3
BIOL F116X—Fundamentals of Biology II.....4
BIOL F150—Introduction to Marine Biology.....3
BIOL F239—Introduction to Plant Biology.....4
BIOL F271—Principles of Ecology.....4
CE F112—Elementary Surveying.....3
EMS F152—Emergency Trauma Training First Responder3
ENGL F314W,O/2—Technical Writing3
FISH F101—Introduction to Fisheries3
MIN F101—Minerals, Man and the Environment3
NRM F251—Silvics and Dendrology.....4
NRM F304O—Perspectives in Natural Resources Management3
NRM F340—Natural Resources Measurement and Inventory ..3
RD F265—Perspectives on Subsistence in Alaska.....3
RD F492—Rural Development Leadership Seminar3
STAT F200X—Elementary Probability and Statistics3
WLF F101—Survey of Wildlife Science1
WLF F201—Wildlife Management Principles.....3
WLF F303W—Wildlife Management Techniques.....3

Or other advisor approved renewable resource related electives.....	9 – 14
4. Minimum credits required.....	60

* Student must earn a C grade or better in each course.
Note: Prerequisites required for many courses.

RURAL HUMAN SERVICES

College of Rural and Community Development
Statewide Programs 907-474-5440
Chukchi Campus 907-442-3400
Interior-Aleutians Campus 907-474-5440
Kuskokwim Campus 907-543-4500
Northwest Campus 907-443-2201
www.uaf.edu/rhs/

Occupational Endorsement; Certificate

Minimum Requirements for Occupational Endorsement: 16 Credits; for Certificate: 32 Credits

The rural human services programs are designed to develop strong and healthy rural Alaska Native individuals, families and communities. They provide entry-level training for students preparing for careers as natural helpers/healers in village-based public, private and volunteer human service organizations. The curriculum draws extensively on resource people from the Native community and reflects a strong multicultural orientation that validates, incorporates and builds on Native values and principles.

The occupational endorsement is a concentrated course of study focused on rural behavioral health services which meets the training requirements for Behavioral Health Aide I credentials as developed by the Alaska Native Tribal Health Consortium. The endorsement can also serve as a “stepping stone” to the certificate. Both the Alaska Division of Behavioral Health and the Alaska Native Tribal Health Consortium are currently developing and defining competencies and credentials for Alaska behavioral health care workers. The occupational endorsement program directly parallels the entry level competencies training required under these new systems.

The certificate program provides additional credentials for service providers who work in related fields and would like additional training in rural behavioral health services. Providers who may want such training could include health aides, family service workers, correctional workers and teachers. Courses are presented as a series of four intensive three-week training sessions at selected delivery sites. A practicum and electives round out the program.

Admission is open to anyone employed by a regional Native health corporation or local entity providing village-based human services, or to individuals recognized by their communities as natural helpers/healers. A high school diploma or GED and/or previous training or work experience in the delivery of village-based human services are recommended but not required.

This degree program is delivered collaboratively within the UA system.

Occupational Endorsement Program

1. Complete the general university requirements (page 82).
2. Complete the occupational endorsement requirements (page 84).
3. Complete the following:

RHS F110—Cross Cultural Bridging	1
RHS F115—Issues of Personal Development	1
RHS F120—Family Systems I	2
RHS F130—Processes of Community Change	2
RHS F140—Alaska Native Values and Principles	1
RHS F150—Introduction to Rural Counseling	2
RHS F260—Addictions: Intervention and Treatment*	2

RHS F275—Introduction to Mental Health Recovery	2
RHS F285—Case Management	2

4. Minimum credits required

Note: See your advisor if you are not sure which catalog year to use.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements. (See page 84. As part of the certificate requirements, complete RHS F110 and F115 for the human relations requirement. The communication and computation courses must be completed from the certificate requirements.)
3. Complete the following courses:

RHS F120—Family Systems I*	2
RHS F130—Processes of Community Change	2
RHS F140—Alaska Native Values and Principles	1
RHS F150—Introduction to Rural Counseling*	2
RHS F220—Family Systems II*	2
RHS F250—Rural Counseling II*	2
RHS F260—Addictions: Intervention and Treatment*	2
RHS F265—Interpersonal Violence*	2
RHS F275—Introduction to Mental Health Recovery	2
RHS F285—Case Management*	2
RHS F287—Rural Human Services Practicum	4
RHS F290—Grief and Healing*	2

4. Minimum credits required

* The Alcohol and Drug Abuse Certification review board has approved these courses toward certification or recertification of Substance Abuse Counselors in the state of Alaska.

Note: Students spend the time in intensive study at selected delivery sites.

RURAL UTILITY BUSINESS MANAGEMENT

College of Rural and Community Development
Division of Rural and Economic Development
Interior-Aleutians Campus
907-474-5439
www.uaf.edu/rural/

Occupational Endorsement

Minimum Requirements for Occupational Endorsement: 12 credits

The occupational endorsement in rural utility business management provides education and training in theory and skills necessary for the sustained operation of rural water and waste-water utilities. The program is open to all individuals who wish to apply with the recommendation that they have a high school diploma or GED. It is designed to serve the needs of rural Alaskans who are employed by a rural sanitation utility, or nominated by any of the following: a rural sanitation utility, state of Alaska RUBM program manager or Alaska Native tribal health corporation.

Occupational Endorsement Program

1. Complete the general university requirements (page 82).
2. Complete the occupational endorsement requirements (page 84).
3. Complete the following:

TM F130—Introduction to Utility Management	2
TM F131—Organizational Management for Utilities	2
TM F132—Operations Management for Utilities	2
TM F134—Financial Management for Utilities	2
TM F136—Personnel Management for Utilities	2
TM F138—Planning for Utilities	2
4. Minimum credits required

* Student must earn a C grade or better in each course.

SAFETY, HEALTH AND ENVIRONMENTAL AWARENESS TECHNOLOGY

College of Rural and Community Development
Tanana Valley Campus
907-455-2906
www.tvc.uaf.edu/osh/

Certificate

Minimum Requirements for Certificate: 37 credits

This program develops entry-level skills in industrial safety, health and environmental awareness. Courses combine the technical know-how, use of state-of-the-art equipment and hands-on experience necessary for students to obtain work in a variety of safety-related industrial fields.

Students are taught the necessary objectives and skills required to take an entry-level Occupational Health and Safety Technologist exam when coupled with other requirements as set forth by the Council on Certification of Health, Environmental and Safety Technologists.

As the process industries expand and automate, the need for qualified safety technicians increases. The Tanana Valley Campus and the Process Technology Program are active members of the American Society of Safety Engineers.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements (page 84).
3. Complete the following program requirements:

PRT F101—Introduction to Process Technology	3
PRT F110—Introduction to Occupational Safety, Health and Environmental Awareness.....	3
OSH F108—Injury Prevention and Risk Management.....	4
OSH F110—Program Assessment, Development, and Implementation	4
OSH F120—Safety Program Management and Recordkeeping.	3
OSH F180—Introduction to Industrial Hygiene	4
OSH F201—Workplace Injury and Incident Evaluations	4
OSH F250—Hazardous Material Operation	3
4. Minimum credits required37

TRIBAL MANAGEMENT

College of Rural and Community Development
Division of Rural and Economic Development
Interior-Aleutians Campus 907-474-5439
www.uaf.edu/iac/tmp/

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 30 credits; for Degree: 60 credits

The tribal management program teaches the job-related skills and knowledge needed for entry-level management positions in tribal institutions, local government and other organizations in rural Alaska. Students perform specific tasks, learn basic management rationale and explore issues in tribal government. Each student has an individual educational plan, which is a critical means of tracking progress and a key part of the process of education in a rural-based learning environment. A student career portfolio demonstrates individual accomplishments and the achievement of specific goal-related skills

and competencies. The student career portfolio is developed to meet program standards. A copy of the standards is available on request.

Students entering any tribal management course should be familiar with word processing, spreadsheets, databases and the Internet. Each student, with the help of a faculty advisor, is required to organize a personal support team to include a tribal leader or community mentor. Students entering either the A.A.S. degree or certificate program should meet with a faculty advisor to discuss program content, requirements and planning.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements (page 84).
3. Complete the following requirements:
 - a. Complete 3 credits from one of the following computation courses:
ABUS F155—Business Math (3)
or approved computation course at the 100-level
or above (3).....3
 - b. Complete 3 credits from one of the following communication courses:
ABUS F170—Business English (3)
or approved communications course at the 100-level
or above (3).....3
 - c. Complete 3 credits from the following human relations courses:
ABUS F154—Human Relations (3)
or approved human relations course at the 100-level
or above (3).....3
4. Complete the following program requirements.
TM F101—Introduction to Tribal Management.....3
TM F105—Introduction to Tribal Finance Applications.....3
TM F199—Tribal Management Practicum I.....3
5. Complete 12 credits from any of the following categories:

Environmental and Natural Resources

- | | |
|--|---|
| BIOL F104—Natural History of Alaska..... | 3 |
| FISH F101—Introduction to Fisheries..... | 3 |
| NRM F101—Natural Resources Conservation and Policy | 3 |
| Advisor approved environmental technology elective..... | 3 |

Health and Social/Human Services

- | | |
|--|---|
| HLTH F105—Introduction to Health Careers..... | 2 |
| HUMS F105—Personal Awareness and Growth..... | 3 |
| HUMS F120—Cultural Diversity in Human Services | 3 |
| PSY F101—Introduction to Psychology | 3 |

Education and Employment

- | | |
|---|---|
| ED F102—Orientation to Alaska Native Education..... | 2 |
|---|---|

Public Administration and Policy

- | | |
|---|---|
| ABUS F150—Time Management | 1 |
| ABUS F179—Fundamentals of Supervision | 3 |
| HIST F110—History of Alaska Natives | 3 |

Tribal Business

- | | |
|---|-------|
| ABUS F135—Recordkeeping for Business..... | 3 |
| ABUS F151—Village Based Entrepreneurship..... | 1 – 3 |
| ABUS F158—Introduction to Tourism | 1 – 3 |
| BA F151—Introduction to Business | 3 |

Economics

- | | |
|---|---|
| ECON F100X—Political Economy..... | 3 |
| ECON F111—Economics of Rural Alaska | 3 |

Tribal Planning

RD F250—Grant Writing for Community Development	3
Advisor-approved electives	6
6. Minimum credits required	30

Major — A.A.S. Degree

1. Complete the general university requirements (page 82).
2. Complete the A.A.S. degree requirements (page 86).
3. Complete the following program (major) requirements:^{*}

TM F101—Introduction to Tribal Management	3
TM F105—Introduction to Tribal Finance Applications	3
TM F199—Tribal Management Practicum I	3
TM F201—Advanced Tribal Management	3
TM F205—Advanced Tribal Finance Applications	3
TM F299—Tribal Management Practicum II	3
4. Complete 18 credits from any of the following categories:^{*}

Environmental and Natural Resources

BIOL F104—Natural History of Alaska	3
BIOL F271—Principles of Ecology	4
FISH F101—Introduction to Fisheries	3
NRM F101—Natural Resources Conservation and Policy	3
NRM F204—Public Lands Law and Policy	3
RD F255—Rural Alaska Land Issues	3
WLF F201—Wildlife Management Principles	3
Advisor-approved environmental technology elective	3

Health and Social/Human Services

HLTH F105—Introduction to Health Careers	2
HUMS F105—Personal Awareness and Growth	3
HUMS F120—Cultural Diversity in Human Services	3
PSY F101—Introduction to Psychology	3

Education and Employment

ED F102—Orientation to Alaska Native Education	2
--	---

Public Administration and Policy

ABUS F150—Time Management	1
ABUS F179—Fundamentals of Supervision	3
ABUS F231—Introduction to Personnel	3
ABUS F232—Contemporary Management Issues	3
AKNP F230—Federal Indian Law	3
HIST F110—History of Alaska Natives	3
RD F200—Community Development in the North	3
RD F250—Grant Writing for Community Development	1 – 3

Tribal Business

ABUS F135—Recordkeeping for Business	3
ABUS F151—Village Based Entrepreneurship	1 – 3
ABUS F158—Introduction to Tourism	1 – 3
ABUS F264—Filing/Records Management	3
BA F151—Introduction to Business	3

Economics

ECON F100X—Political Economy	3
ECON F111—Economics of Rural Alaska	3

Tribal Planning

- | | |
|---|----|
| RD F250—Grant Writing for Community Development | 3 |
| Advisor-approved electives | 6 |
| 5. Complete credits in F100-level or higher in consultation with an academic advisor and community mentor | 9 |
| 6. Minimum credits required | 60 |
- * Student must earn a C grade or better in each course.

VETERINARY SCIENCE

College of Rural and Community Development
Interior-Aleutians Campus 907-474-5439
Chukchi Campus 907-442-3400
www.uaf.edu/fac/VTS/home.htm

Certificate

Minimum Requirements for Certificate: 37 – 38 credits

Training in veterinary science and medicine provides a strong base for careers in farming, dog mushing, wildlife management, public health, tribal resource management, environmental health, veterinary technology and for additional education leading to a career as a veterinarian. Information and training for work with domestic small animals, domestic farm animals, reindeer, bison and muskox is incorporated into the program. Certificate graduates are prepared to continue on in learning tracks for veterinary technology, public health, wildlife management, veterinary medical illustration, veterinary medicine and other science-related fields.

Certificate Program

1. Complete the general university requirements (page 82).
 2. Complete the following certificate requirements:

ENGL F111X—Introduction to Academic Writing	3
MATH F107X—Functions for Calculus** (4)	
or DEVM F105—Intermediate Algebra (3)	3 – 4
ANTH/SOC F100X—Individuals, Society, and Culture (3)	
or ABUS F154—Human Relations (3)	3
 3. Complete the following program (major) requirements:^{*}

CHEM F103X—Basic General Chemistry (4)	
or CHEM F105X—General Chemistry** (4)	4
BIOF F103—Biology and Society (4)	
or BIOL F116X—Fundamentals of Biology II** (4)	4
VTS F101—Introduction to Veterinary Science	2
VTS F110—Veterinary Medical Terminology	3
VTS F130—Animal Anatomy and Physiology for Veterinary Sciences	4
VTS F140—Basic Animal Husbandry for Veterinary Sciences ..	3
VTS F150—Basic Animal Nutrition and Feeding for Veterinary Sciences	3
VTS F160—Animal Diseases for Veterinary Sciences	3
VTS F199—Veterinary Science Practicum I	2
 4. Minimum credits required
- * Student must earn a C grade or better in each course.
** Students should take the higher level courses if additional degrees will be sought.

WELDING AND MATERIALS TECHNOLOGY

College of Rural and Community Development
Tanana Valley Campus
907-455-2800
www.tvc.uaf.edu/programs/weld/

Welding is an important industrial skill with applications in agriculture, mining, transportation, aviation, oil and gas, and construction. Training ranges from welding basics to advanced pipe and metal plate fabrication.

Classes are small to offer hands-on training and maximum interaction between the student and instructor. Students may request credit by examination for any WMT class. Advanced students may work toward American Welding Society certification or pursue advanced projects. Contact the department for details.

The following courses are part of the welding and materials tech-

nology program:

WMT F101—Introduction to Welding.....	3
WMT F102—Intermediate Welding.....	3
WMT F103—Welding I.....	3
WMT F105—Welding II.....	3
WMT F106—Heat Treating/Metal Finishing/Knife Making I.....	3
WMT F117—Oxy-Acetylene Welding and Cutting	3
WMT F130—Shielded Metal Arc Welding (SMAW)	1 – 3
WMT F150—Gas Tungsten Arc Welding (GTAW).....	1 – 3
WMT F160—Gas Metal Arc Weld Alum (GMAW)	1 – 3
WMT F170—Military Training Welding I.....	3
WMT F206—Heat Treating/Metal Finishing/Knife Making II ..	3
WMT F210—Uphill Pipe Welding	3
WMT F241—Gas Tungsten Arc and Gas Metal Arc Welding....	3
WMT F270—Military Training Welding II.....	3
WMT F280—Military Training Welding III	3
WMT F290—Welding Proficiency Maintenance.....	3

YUP'IK LANGUAGE PROFICIENCY

College of Liberal Arts
 Department of Alaska Native Languages
 907-474-7874
www.uaf.edu/anlc/classes.html
 Program available at Kuskokwim Campus only

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 30 credits; for Degree: 60 credits

The Yup'ik language proficiency program is designed to provide students with the opportunity to pursue structured study of Yup'ik in order to develop intermediate-level speaking and listening skills, as well as basic reading and writing abilities in the language. The certificate may serve as a step on the way to a two-year or four-year degree.

Certificate Program

1. Complete the general university requirements (page 82).
2. Complete the certificate requirements. (See page 84. As part of the certificate requirements, the communication, computation and human relations content is embedded in some of the major required courses for this program.)
3. Complete the following:
 - a. ESK F208—Yup'ik Composition.....3
 ESK F130—Beginning Yup'ik Grammar.....3
 ESK F240—Introduction to Reading Yup'ik.....3
 - b. Complete one of the following sequences:

ESK F121—Elementary Central Yup'ik Apprenticeship I	4
ESK F122—Elementary Central Yup'ik Apprenticeship II	4
ESK F123—Elementary Central Yup'ik Apprenticeship III.....	4
or	
ESK F103—Conversational Central Yup'ik (3)	3
ESK F104—Conversational Central Yup'ik	3
ESK F203—Intermediate Central Yup'ik	3
ESK F204—Intermediate Central Yup'ik	3
 - c. Complete one of the following sequences:

ESK F221—Intermediate Central Yup'ik Apprenticeship I	3
ESK F222—Intermediate Central Yup'ik Apprenticeship II	3
ESK F223—Intermediate Central Yup'ik Apprenticeship III.....	3
or	
ESK F205—Regaining Fluency in Yup'ik (3)	3
ESK F206—Regaining Fluency in Yup'ik	3

4. Minimum credits required
- Major — A.A.S. Degree**
1. Complete the general university requirements (page 82).
 2. Complete the A.A.S. degree requirements (page 86).
 3. Complete the following program (major) requirements:*
 - a. Complete the following:

ESK F208—Yup'ik Composition.....	3
ESK F130—Beginning Yup'ik Grammar	3
ESK F240—Introduction to Reading Yup'ik	3
 - b. Complete one of the following sequences:

ESK F121—Elementary Central Yup'ik Apprenticeship I	4
ESK F122—Elementary Central Yup'ik Apprenticeship II	4
ESK F123—Elementary Central Yup'ik Apprenticeship III.....	4
or	
ESK F103—Conversational Central Yup'ik	3
ESK F104—Conversational Central Yup'ik	3
ESK F203—Intermediate Central Yup'ik	3
ESK F204—Intermediate Central Yup'ik	3
 - c. Complete one of the following sequences:

ESK F221—Intermediate Central Yup'ik Apprenticeship I	3
ESK F222—Intermediate Central Yup'ik Apprenticeship II	3
ESK F223—Intermediate Central Yup'ik Apprenticeship III.....	3
or	
ESK F205—Regaining Fluency in Yup'ik	3
ESK F206—Regaining Fluency in Yup'ik	3
 4. Minimum credits required
- * Student must earn a C grade or better in each course.