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
www.tvc.uaf.edu/programs/info/acct-info.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 may prepare a student to enter the rural development B.A. degree program and the technology B.T. degree program.

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 80).

2. Complete the A.A.S. degree requirements (page 84. As part of the A.A.S. degree requirements, complete ABUS 154 for the human relations requirement. ABUS 155 is the recommended computation course.)

3. Complete the following program (major) requirements:*
   ABUS 101—Principles of Financial Accounting I...........................3
   ABUS 141—Payroll Accounting...3
   ABUS 175—Customer Service 3
   ABUS 179—Fundamentals of Supervision.....................................3
   ABUS 201—Principles of Financial Accounting II........................3
   ABUS 210—Income Tax..3
   ABUS 221—Microcomputer Accounting (3)
        or ABUS 220—Microcomputer Accounting: Quickbooks (3)...3
   ABUS 230—Applied Intermediate Accounting..............................3
   ABUS 233—Financial Management 3
   ABUS 235—Fund Accounting for Non-Profits 3
   ABUS 241—Applied Business Law (3)
        or ABUS 242—Employment Law (3) 3
   BA 151—Introduction to Business..3
   CIOS 135—Microcomputer Spreadsheets (3)
        or CIOS 240—Microcomputer Databases (3)...........................3
   CIOS 150—Computer Business Applications** 3
   ABUS, ACCT, BA or CIOS elective...3

4. Minimum credits required..60

   * 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 150.

Minor

1. Complete the following:
   ABUS 101—Principles of Financial Accounting I...........................3
   ABUS 201—Principles of Financial Accounting II (3)
        or ABUS 235—Fund Accounting for Non-Profits (3) 3
   ABUS 210—Income Tax..3
   ABUS 220—Microcomputer Accounting: Quickbooks (3)
        or ABUS 221—Microcomputer Accounting (3) 3
   BA 151—Introduction to Business..3
   CIOS 135—Microcomputer Spreadsheets (3)
        or CIOS 240—Microcomputer Databases (3)...........................3

2. Minimum credits required..18

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

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/info/acct-info.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.

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 80).

2. Complete the following certificate requirements:
   a. Complete 3 credits from one of the following communication courses:
      ABUS 170—Business English (3)
         or ABUS 271—Business Communications (3)
         or ENGL 111X—Introduction to Academic Writing (3)
         or ENGL 212—Business, Grant, and Report Writing (3) 3
   b. Complete 3 credits from one of the following computation courses:
      ABUS 155—Business Math (3)
         or MATH at the 100-level or above 3
   c. Complete 3 credits from the following human relations course:
      ABUS 154—Human Relations 3

3. Complete the following program (major) requirements.
   ABUS 101—Principles of Financial Accounting I 3
   ABUS 201—Principles of Financial Accounting II (3)
      or ABUS 235—Fund Accounting for Non-Profits (3) 3
   CIOS 150—Computer Business Applications (3)
      or CIOS 135—Microcomputer Spreadsheets (3) 3
   BA 151—Introduction to Business 3
   ABUS 141—Payroll Accounting 3
   ABUS 210—Income Tax 3
   ABUS 220—Microcomputer Accounting: Quickbooks (3)
      or ABUS 221—Microcomputer Accounting (3) 3

4. Minimum credits required 30

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Allied Health

College of Rural and Community Development
Rural Health Programs
www.uaf.edu/crahealth/
(907) 474-5264
Tanana Valley Campus
(907) 455-2822
www.tvc.uaf.edu/programs/info/hlth-info.html

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 30–36 credits;
for Degree: 60–62 credits

The certificates, degrees and occupational training programs in allied health provide students with the knowledge and technical skills for employment in health care. In the Fairbanks area, the job market is especially favorable for medical and dental assistants. The certificates are designed to permit early employment options while completing the final portion of an A.A.S. degree.

Certificates offered include medical assistant, dental assistant, healthcare reimbursement and medical/dental reception. A.A.S. degrees offered include dental assistant and medical assistant. Occupational training programs are available in nurse assistant and phlebotomy. 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.

Medical Assistant, Medical/Dental Reception

The medical assistant A.A.S. degree incorporates the medical/dental reception certificate and 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 (CAAHEP) upon recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowment (CRB-AAMAE). CAAHEP, 35 East Wacker Drive, Chicago, IL 60601, (312) 553-9355.

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.

Healthcare 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.

Nurse Assistant and Phlebotomist

Training is also available for the nurse assistant and phlebotomist. After completion of the nurse assistant training course, students may complete the test to become Certified Nurse Assistants through the State of Alaska. A student who completes the phlebotomy training may sit for national certification through the American Society for Clinical Pathology to become a certified Phlebotomy Technician.

Registered Nurse

The A.A.S. degrees in nursing and in radiologic technology are 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 curriculum of the radiologic technology program is designed to meet the accreditation standards of the Joint Review Committee on Education in Radiologic Technology (JRCERT). 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 http://www.uaa.alaska.edu/radt.

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 http://www.tvc.uaf.edu.

Dental Assistant—Certificate Program

1. Complete the general university requirements (page 80).

2. Complete the certificate requirements. (See page 82. 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:*
   HLTH 110—Professional Skills for the Workplace 2
   HLTH 122—First Aid and CPR 1
   HLTH 132—Administrative Procedures I 2
   HLTH 150—Dental Radiography 4
   HLTH 151—Dental Infection Control 2
   HLTH 152—Dental Materials and Applications 4
   HLTH 153—Anatomy for Dental Assistants 3
   HLTH 251—Clinical Chairside I for Dental Assistants 6
   HLTH 252—Clinical Chairside II for Dental Assistants 6
   HLTH 254—Dental Assistant Practicum 4

4. Minimum credits required 34
   Student must earn a C grade or better.

Health Care Reimbursement—Certificate Program

1. Complete the general university requirements (page 80).

2. Complete the certificate requirements. (See page 82. 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 116—Mathematics in Healthcare 3

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

4. Complete the following:*
   ABUS 271—Business Communications..3
   CIOS 150—Computer Business Applications...............................3
   HLTH 100—Medical Terminology...3
   HLTH 110—Professional Skills for the Workplace.......................2
   HLTH 132—Administrative Procedures I......................................2
   HLTH 208—Human Diseases 3
   HLTH 234—Administrative Procedures II 4
   HLTH 235—Medical Coding...4
   HLTH 236—Outpatient Health Care Reimbursement...................3

5. Minimum credits required 30
   Student must earn a C grade or better.

Medical Assistant—Certificate Program

1. Complete the general university requirements (page 80).

2. Complete the certificate requirements. (See page 82. 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:*
   HLTH 100—Medical Terminology...3
   HLTH 114—Fundamentals of Anatomy and Physiology (4)
      or BIOL 100X—Human Biology (4) 4
   HLTH 116—Mathematics in Health Care (3)
      or MATH elective at the 100-level or above
      (3)..3
   HLTH 118—Medical Law and Ethics 2
   HLTH 122—First Aid and CPR 1
   HLTH 132—Administrative Procedures I......................................2
   HLTH 142—Clinical Procedures I...4
   HLTH 234—Administrative Procedures II 4
   HLTH 244—Clinical Procedures II..4
   HLTH 247—Pharmacology..2
   HLTH 268—Medical Assisting Externship....................................4

4. Complete one of the following:
   a. A timed exam and demonstrate competence in typing at 45 WPM.
   b. ABUS 108—Keyboarding II/Intermediate Typewriting**..........3

5. Minimum credits required .... 33 or 36
   Student must earn a C grade or better.
   **Student must earn a B grade or better.*

Medical/Dental Reception—Certificate Program

1. Complete the general university requirements (page 80).

2. Complete the following certificate requirements:*
   a. Complete 3 credits from one of the following communication courses:
      ABUS 271—Business Communications (3)
         or ENGL 111X—Introduction to Academic Writing (3)...........3
   b. Complete 3 credits from one of the following computation courses:
      MATH at the 100-level or above (3)
         or HLTH 116—Mathematics in Health Care (3) 3
   c. Complete the following human relations course:
      HLTH 106—Human Behavior in Health Care 3

3. Complete the following:*
   CIOS 150—Computer Business Applications (3)
      or CIOS elective at the 200-level (3) 3
   HLTH 100—Medical Terminology 3
   HLTH 110—Professional Skills for the Workplace 2
   HLTH 118—Medical Law and Ethics...2
   HLTH 122—First Aid and CPR 1
   HLTH 132—Administrative Procedures I......................................2
   HLTH 234—Administrative Procedures II 4
   HLTH 261—Reception Externship..2
   Approved HLTH, CIOS, ABUS, HUMS, DEVS or COMM elective . 2

4. Complete one of the following:
   a. A timed exam and demonstrate competence in typing at 45 WPM.
   b. ABUS 108—Keyboarding II/Intermediate Typewriting**..........3

5. Minimum credits required 30-33
   Student must earn a C grade or better.
   **Student must earn a B grade or better.*

Dental Assistant—A.A.S. Degree

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements (page 84).

3. Complete the following program (major) requirements:*
   HLTH 110—Professional Skills for the Workplace.......................2
   HLTH 114—Fundamentals of Anatomy and Physiology................4
   HLTH 122—First Aid and CPR 1
   HLTH 132—Administrative Procedures I......................................2
   HLTH 150—Dental Radiography...4
   HLTH 151—Dental Infection Control 2
   HLTH 152—Dental Materials and Applications 4
   HLTH 153—Anatomy for Dental Assistants..................................3
   HLTH 203—Science of Nutrition 3
   HLTH 247—Introduction to Pharmacology 2
   HLTH 251—Clinical Chairside I for Dental Assistants 6
   HLTH 252—Clinical Chairside II for Dental Assistants.................6
   HLTH 253—Clinical Chairside III for Dental Assistants...............3
   HLTH 254—Dental Assistant Practicum 4

4. Minimum credits required 61
   Student must earn a C grade or better.

Medical Assistant—A.A.S. Degree

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements* (page 84).

3. Complete the following program (major) requirements:*
   CIOS 150—Computer Business Applications (3)
      or appropriate CIOS elective (3)..3
   ABUS 208—Medical Machine Transcription 2
   HLTH 100—Medical Terminology...3
   HLTH 110—Professional Skills for the Workplace.......................2
   HLTH 114—Fundamentals of Anatomy and Physiology (4)
      or BIOL 100X—Human Biology (4) 4
   HLTH 116—Mathematics in Health Care (3)
      or MATH elective at the 100-level or above (3).......................3
   HLTH 118—Medical Law and Ethics 2
   HLTH 122—First Aid and CPR 1
   HLTH 132—Administrative Procedures I......................................2
   HLTH 142—Clinical Procedures I...4
   HLTH 234—Administrative Procedures II 4
   HLTH 244—Clinical Procedures II..4
   HLTH 247—Introduction to Pharmacology 2
   HLTH 268—Medical Assisting Externship....................................4
   Approved HLTH, CIOS, ABUS, HUMS, DEVS or COMM elective . 5

4. Complete one of the following:
   a. A timed exam and demonstrate competence in typing at 45 WPM.
   b. ABUS 108—Keyboarding II/Intermediate Typewriting**..........3

5. Minimum credits required 60
   Student must earn a C grade or better.
   **Student must earn a B grade or better.*
   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

Apprenticeship Technology

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 technology provides vocational 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 an apprenticeship program approved by the U.S. Department of Labor, and they must hold journeyman-level status in trades recognized by the U.S. Department of Labor, Bureau of Apprenticeship and Training.

Students declaring a major in apprenticeship technology must present documentation of acceptance into an apprenticeship program approved by 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 80).

2. Complete the A.A.S. degree requirements (page 84. As part of the A.A.S. degree requirements, complete ANTH/SOC 100X; MATH 103X or MATH 107X.)

3. Complete the following:
   EMS 152—Emergency Trauma Training First Responder 3
   STAT 200—Elementary Probability and Statistics 3

4. Complete 3 credits from the following:
   AIS 101—Effective Personal Computer Use 3
   CIOS 100—Introduction to Personal Computers 1
   CIOS 103—Computer Survey 1-3
   CIOS 105—Computer Software Application 1-3
   CIOS 110—Microcomputer Operating Systems 1-3
   CIOS 111—Computer Software for Beginners 1-2
   CIOS 150—Computer Business Applications 1-3
   CIOS 152—Introduction to Microcomputers in
      Small Businesses 1-3
   CIOS 251—Integrated Software 1-3

5. Approved apprenticeship program transfer of
   credit maximum 38

6. Minimum credits required 60

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

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/info/aa-info.html

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 baccalaureate program. The degree may serve as a starting point for a career or as a stepping-stone to a baccalaureate program. You may only earn one A.A. degree.

Major—A.A. Degree

1. Complete the general university requirements (page 80).

2. Complete the A.A. degree requirements (page 83).

3. Minimum credits required 60

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

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: 64–69 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 (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 July 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 80.).

2. Complete the certificate requirements. (See page 82. 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 145—Basic Mathematics 1
   AFPM 146—Basic Electricity 2
   AFPM 147—Physics for Mechanics 0.5
   AFPM 148—Aircraft Drawing 1
   AFPM 149—Fluid Lines and Fitting 0.5
   AFPM 150—Materials and Processes 2
   AFPM 151—Cleaning and Corrosion Control 1
   AFPM 152—Federal Aviation Regulations 1
   AFPM 153—Weight and Balance 1
   AFPM 154—Ground Operations and Servicing 0.5

4. Complete the following airframe structures requirements:
   AFPM 261—Non Metallic Structures 1
   AFPM 262—Aircraft Coverings 1
   AFPM 263—Aircraft Finishes 0.5
   AFPM 264—Sheet Metal Structures 3
   AFPM 265—Aircraft Welding 1.5
   AFPM 266—Assembly and Rigging 1.5
   AFPM 267—Airframe Inspections 0.5
   AFPM 270—Airframe Testing 0.5

5. Complete the following airframe systems and components requirements:
   AFPM 230—Aircraft Electrical Systems 2.5
   AFPM 253—Transport Category Aircraft 1
   AFPM 254—Ice and Rain Control Systems 0.5
   AFPM 256—Communications and Navigation Systems 0.5
   AFPM 258—Cabin Atmosphere Control Systems 1
   AFPM 259—Hydraulic and Pneumatic Systems 1.5
   AFPM 260—Aircraft Landing Gear Systems 1.5

6. Complete the following powerplant theory and maintenance requirements:
   AFPM 235—Aircraft Reciprocating Engines 4.5
   AFPM 240—Turbine Engines 2
   AFPM 271—Powerplant Inspections 0.5
   AFPM 272—Powerplant Testing 0.5

7. Complete the following powerplant systems and components requirements:
   AFPM 231—Powerplant Electrical Systems 1.5
   AFPM 244—Lubrication Systems 1.5
   AFPM 245—Ignition Systems 2
   AFPM 246—Fuel Metering Systems 2
   AFPM 248—Induction Systems 0.5
   AFPM 249—Powerplant Cooling Systems 0.5
   AFPM 250—Powerplant Exhaust Systems 0.5
   AFPM 252—Propellers 2

8. Complete the following combined systems and components requirements:
   AFPM 251—Fuel Systems 1.5
   AFPM 255—Fire Protection Systems 0.5
   AFPM 257—Instrument Systems 0.5

9. Minimum credits required 49

Airframe—Certificate Program

1. Complete the general university requirements (page 80.).

2. Complete the certificate requirements. (See page 82. 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 145—Basic Mathematics 1
   AFPM 146—Basic Electricity 2
   AFPM 147—Physics for Mechanics 0.5
   AFPM 148—Aircraft Drawing 1
   AFPM 149—Fluid Lines and Fitting 0.5
   AFPM 150—Materials and Processes 2
   AFPM 151—Cleaning and Corrosion Control 1
   AFPM 152—Federal Aviation Regulations 1
   AFPM 153—Weight and Balance 1
   AFPM 154—Ground Operations and Servicing 0.5

4. Complete the following airframe structures requirements:
   AFPM 261—Non Metallic Structures 1
   AFPM 262—Aircraft Coverings 1
   AFPM 263—Aircraft Finishes 0.5
   AFPM 264—Sheet Metal Structures 3
   AFPM 265—Aircraft Welding 1.5
   AFPM 266—Assembly and Rigging 1.5
   AFPM 267—Airframe Inspections 0.5
   AFPM 270—Airframe Testing 0.5

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

5. Complete the following airframe systems and components requirements:
AFPM 230—Aircraft Electrical Systems......................................2.5
AFPM 253—Transport Category Aircraft......................................1
AFPM 254—Ice and Rain Control Systems.................................0.5
AFPM 256—Communications and Navigation Systems..............0.5
AFPM 258—Cabin Atmosphere Control Systems.........................1
AFPM 259—Hydraulic and Pneumatic Systems 1.5
AFPM 260—Aircraft Landing Gear Systems 1.5

6. Complete the following combined systems and components requirements:
AFPM 251—Fuel Systems..1.5
AFPM 255—Fire Protection Systems 0.5
AFPM 257—Instrument Systems 0.5

7. Minimum credits required 31

Powerplant—Certificate Program

1. Complete the general university requirements (page 80.).

2. Complete the certificate requirements. (See page 82. 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 145—Basic Mathematics 1
AFPM 146—Basic Electricity 2
AFPM 147—Physics for Mechanics 0.5
AFPM 148—Aircraft Drawing..1
AFPM 149—Fluid Lines and Fitting...0.5
AFPM 150—Materials and Processes..2
AFPM 151—Cleaning and Corrosion Control..............................1
AFPM 152—Federal Aviation Regulations....................................1
AFPM 153—Weight and Balance 1
AFPM 154—Ground Operations and Servicing...........................0.5

4. Complete the following powerplant theory and maintenance requirements:
AFPM 235—Aircraft Reciprocating Engines..............................4.5
AFPM 240—Turbine Engines...2
AFPM 271—Powerplant Inspections 0.5
AFPM 272—Powerplant Testing 0.5

5. Complete the following powerplant and systems components requirements:
AFPM 231—Powerplant Electrical Systems...............................1.5
AFPM 244—Lubrication Systems 1.5
AFPM 245—Ignition Systems 2
AFPM 246—Fuel Metering Systems 2
AFPM 248—Induction Systems 0.5
AFPM 249—Powerplant Cooling Systems..................................0.5
AFPM 250—Powerplant Exhaust Systems..................................0.5
AFPM 252—Propellers..2

6. Complete the following combined systems and components requirements:
AFPM 251—Fuel Systems..1.5
AFPM 255—Fire Protection Systems 0.5
AFPM 257—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 80).

2. Complete the A.A.S. degree requirements (page 84).

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.

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

U N I V E R S I T Y   O F   A L A S K A   F A I R B A N K S
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

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 16 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, Computer Applications, Entrepreneurship, Finance, Health Care Management, Human Resources, International Business, Marketing, Public Management, and Tourism.

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements (page 84. As part of the A.A.S. degree requirements, complete ABUS 154 for the human relations requirement.)

3. Complete the following general business requirements:*
   ABUS 101—Principles of Financial Accounting I............................3
   ABUS 175—Customer Service 3
   ABUS 179—Fundamentals of Supervision......................................3
   ABUS 232—Contemporary Management Issues.............................3
   ABUS 241—Applied Business Law..3
   ABUS 260—Marketing Practices (3)
       or ABUS 263—Public Relations (3)...3
   BA 151—Introduction to Business...3
   CIOS elective appropriate to skill level 3

4. Complete one of the following concentrations:*

Administrative Management
Complete the following:
   ABUS 102C—Keyboarding: Document Formatting.......................1
   ABUS 116—Using 10-Key Calculators...1
   ABUS 134—Alphabetic Filing...1
   ABUS 170—Business English..3
   ABUS 182—Office Procedures 3
   ABUS 264—Filing/Records Management......................................3
   ABUS, CIOS, PLS, HLTH or other advisor approved electives........9

Computer Applications
Complete the following:
   CIOS 100-level or above word processing elective 3
   CIOS 100-level or above microcomputer spreadsheet elective 3
   CIOS 100-level or above microcomputer database elective 3
   CIOS 100-level or above microcomputer graphics elective 3
   CIOS 100-level or above Internet or web design elective 3
   ABUS, ACCT, BA or CIOS electives 6

Entrepreneurship
Complete the following:
   ABUS 201—Principles of Accounting II (3)
       or ABUS 210—Income Tax (3)
       or ABUS 220—Quickbooks Accounting (3)
       or ABUS 221—Microcomputer Accounting (3)
       or ABUS 235—Fund Accounting for Non-Profits (3) 3
   ABUS 233—Financial Management 3
   ABUS 265—Seminar in Applied Marketing 3
   ABUS 272—Small Business Planning...3
   ABUS 273—Managing a Small Business...3
   ABUS 274—E-commerce...3
   ABUS, ACCT, BA or CIOS electives 3

Finance
Complete the following:
   ABUS 120—Basics of Investing 3
   ABUS 160—Principles of Banking 3
   ABUS 201—Principles of Financial Accounting II.........................3
   ABUS 210—Income Tax..3
   ABUS 220—Quickbooks Accounting (3)
       or ABUS 221—Microcomputer Accounting (3) 3
   ABUS 233—Financial Management 3
   ABUS 272—Small Business Planning...3

Health Care Management
Complete the following:
   HLTH 100—Medical Terminology 3
   HLTH 118—Medical Law and Ethics...2
   HLTH 132—Administrative Procedures I 2
   HLTH 208—Human Diseases...3
   HLTH 234—Administrative Procedures II 4
   HLTH 235—Medical Coding..4
   HLTH 236—Outpatient Health Care Reimbursement 3

Human Resources
Complete the following:
   ABUS 141—Payroll Accounting..3
   ABUS 178—Business and Professional Presentations 3
   ABUS 231—Introduction to Personnel 3
   ABUS 242—Employment Law 3
   CIOS 100-level or above microcomputer spreadsheet elective 3
   CIOS 100-level or above microcomputer database elective 3
   ABUS, ACCT, BA or CIOS electives 3

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

International Business

a. Complete the following:

ABUS 178—Business and Professional Presentations 3

ABUS 233—Financial Management 3

ABUS 265—Seminar in Applied Marketing 3

ABUS 275—Applied International Business 3

Foreign language elective 3

b. Complete one of the following elective options:

Option 1

ABUS 272—Small Business Planning (3)

   or ABUS 273—Managing a Small Business (3) 3

PS 201—Comparative Politics (3)

   or PS 321W—International Politics (3) 3

Option 2

ABUS 299—Practicum in Applied Business (Study Abroad) 6

Marketing

Complete the following:

ABUS 178—Business and Professional Presentations 3

ABUS 265—Seminar in Applied Marketing 3

ABUS 274—E-commerce 3

CIOS 200-level or above desktop publishing or graphics elective .. 3

CIOS 200-level or above Internet or web design elective 3

ABUS, BA or CIOS electives 6

Public Management

Complete the following:

ABUS 235—Fund Accounting 3

PS 100X—Political Economy 3

PS 101—Introduction to American Government and Politics 3

PS 212—Introduction to Public Administration 3

PS 403W—Public Policy 3

   or ABUS 242—Employment Law 3

ABUS, ACCT, CIOS or PS electives 6

Tourism

a. Complete the following:

ABUS 158—Introduction to Tourism 3

ABUS 199—Practicum in Applied Business 3

ABUS 265—Seminar in Applied Marketing 3

ABUS 275—Applied International Business 3

b. Complete 3 credits from the following electives:

ABUS 256—Small Hotel, Bed and Breakfast,

   and Lodge Operations 1–3

ABUS 267—Transportation and Logistics Management 1–3

ABUS 268—Rural Tourism: Planning and Principles 1–3

ABUS 269—Food and Beverage Management 1–3

c. Complete one of the following elective options:

Option 1

ABUS, ACCT, BA, CAH or CIOS electives 6

Option 2

ABUS 299—Practicum in Applied Business (Study Abroad) 3

Foreign language 3

5. Minimum credits required 60

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

Minor

1. Complete the following:

ABUS 101—Principles of Financial Accounting I 3

ABUS 175—Customer Service 3

ABUS 232—Contemporary Management Issues 3

ABUS 260—Marketing Practices (3)

   or ABUS 263—Public Relations (3) 3

BA 151—Introduction to Business 3

CIOS elective appropriate to skill level 3

2. Minimum credits required 18

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

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

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 and Tourism.

1. Complete the general university requirements (page 80).

2. Complete the following certificate requirements:
   a. Complete 3 credits from one of the following communication courses:
      ABUS 170—Business English (3)
         or ABUS 271—Business Communications (3)
         or ENGL 111X—Introduction to Academic Writing (3)
         or ENGL 212—Business, Grant, and Report Writing (3) 3
   b. Complete one of the following computation requirements:
      ABUS 155—Business Math (3)
         or any MATH course at the 100-level or above (3) 3
   c. Complete the following human relations course:
      ABUS 154—Human Relations 3

3. Complete the following general business courses:
   ABUS 101—Principles of Financial Accounting I (3)
      or ABUS 142—Office Accounting I (3) 3
   BA 151—Introduction to Business 3
   CIOS elective appropriate to skill level 3

4. Complete one of the following concentrations:

   ### Computer Applications
   CIOS 100-level or above word processing elective 3
   CIOS 100-level or above microcomputer spreadsheet elective 3
   CIOS 100-level or above microcomputer database elective 3
   CIOS 100-level or above microcomputer graphics of web design
      elective 3

   ### Finance
   ABUS 120—Basics of Investing 3
   ABUS 160—Principles of Banking 3
   ABUS 210—Income Tax 3
   ABUS 233—Financial Management 3
   CIOS 135—Microcomputer Spreadsheets 3
   Note: CIOS 135 is the required CIOS elective for this certificate.

   ### General Business
   ABUS 201—Principles of Accounting II (3)
      or ABUS 210—Income Tax (3)
      or ABUS 220—Quickbooks Accounting (3)
      or ABUS 221—Microcomputer Accounting (3)
      or ABUS 235—Fund Accounting for Non-Profits (3) 3
   ABUS 179—Fundamentals of Supervision 3
   ABUS 232—Contemporary Management Issues 3
   ABUS 260—Marketing Practices (3)
      or ABUS 263—Public Relations (3) 3

   ### Human Resources
   ABUS 141—Payroll Accounting 3
   ABUS 179—Fundamentals of Supervision 3
   ABUS 231—Introduction to Personnel 3
   ABUS 242—Employment Law 3

   ### International Business
   ABUS 178—Business and Professional Presentations 3
   ABUS 275—Applied International Business 3
   PS 201—Comparative Politics 3
   Foreign language elective 3

   ### Marketing
   ABUS 175—Customer Service 3
   ABUS 178—Business and Professional Presentations 3
   ABUS 260—Marketing Practices (3)
      or ABUS 263—Public Relations (3) 3
   CIOS 200-level graphics or web design elective 3

   ### Office Administration
   ABUS 102C—Keyboarding: Document Formatting 1
   ABUS 116—Using 10-Key Calculators 1
   ABUS 134—Alphabetic Filing 1
   ABUS 170—Business English 3
   ABUS 182—Office Procedures 3
   ABUS 264—Filing/Records Management 3

   ### Public Management
   ABUS 235—Fund Accounting 3
   PS 100X—Political Economy 3
   PS 101—Introduction to American Government and Politics 3
   PS 212—Introduction to Public Administration 3

   ### Tourism
   ABUS 158—Introduction to Tourism 3
   ABUS 175—Customer Service 3
   ABUS 199—Practicum in Applied Business 3
   ABUS 256—Small Hotel, Bed and Breakfast, and
      Lodge Operations (1-3)
      or ABUS 267—Transportation and Logistics Management (1-3)
      or ABUS 268—Rural Tourism: Planning and Principles (1-3)
      or ABUS 269—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.

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

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
Community Health Aide/Practitioner Training Centers:
  Anchorage CHA Training Program, ANMC (907) 729-2427;
  Norton Sound Health Corp., Nome (907) 443-3404;
  Southeast Alaska Regional Health Corp., Sitka (907) 966-8758;
  Tanana Chiefs Conference, Fairbanks (907) 452-8251, ext. 3410; and
  Yukon-Kuskokwim Health Corp., Bethel (907) 543-6150.
  www.uaf.edu/rural/

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) 474-5264.

Certificate Program

1. Complete the general university requirements (page 80).

2. Complete the certificate requirements. (See page 82. 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 131—Community Health Aide, Session I...............................8
   CHP 132—Community Health Aide, Session II..............................8
   CHP 133—Community Health Aide, Session III 8
   CHP 134—Community Health Aide, Session IV 8
   CHP 135—Community Health Aide, Preceptorship......................2

4. Minimum credits required..34

   Note: The student may take CHP 082 prior to CHP 131 as an option when regionally available.

Major—A.A.S. Degree

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements (page 84).

3. Complete the following program (major) requirements:*
   a. Complete the following:
   CHP 131—Community Health Aide, Session I...............................8
   CHP 132—Community Health Aide, Session II..............................8
   CHP 133—Community Health Aide, Session III 8
   CHP 134—Community Health Aide, Session IV 8
   CHP 135—Community Health Aide, Preceptorship......................2
   b. Complete 5 or more credits from the following:
   CHP 203—Clinical Update for Community Health
       Practitioners..1–3
   CHP 206—Mental Health and Substance Abuse........................1–3
   CHP 207—Maternal and Infant Health.....................................1–3
   CHP 208—Communicable Diseases 1–3
   CHP 211—Health Education 1–3
   CHP 212—Diabetes: Primary Prevention and
       Village Medical Care 1–3
   CHP 214—Cancer: Risks, Diagnosis and Treatment......................3
   CHP 215—Death and Dying 3
   CHP 220—Women's Health: Breast and Cervical Cancer
       Screening...2
   CHP 250—Current Issues in Rural Health Care** 1–3
   CHP 293—Special topic courses
   EMS—any 200-level courses
   HLTH—any 200-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.

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

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: 38.5 credits;
for Degree: 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 80).

2. Complete the certificate requirements. (See page 82. 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 106—Construction Mathematics (3)
      or TTCH 131—Mathematics for the Trades (3) 3

4. Complete the following program (major) requirements:
    CTT 100—Construction Technology Core (5)
      or CTT 101—Basic Construction Safety (1)
      and CTT 102—Introduction to Hand and Power Tools (1)
      and CTT 103—Introduction to Blueprint Reading (1)
      and CTT 104—Basic Communication and Employability
      Skills (2)..5
    CTT 110—Residential Carpentry—Level One (8.5)
      or CTT 111—Materials and Tools Used in the Trade (2.5)
      and CTT 112—Floor Systems, Wall and Ceiling Framing (2)
      and CTT 113—Roof Framing, Windows and Exterior
      Doors (2)
      and CTT 114—Introduction to Concrete Materials and
      Forms (2) 8.5
    CTT 115—Residential Carpentry—Level Two (12)
      or CTT 116—Reading Plans and Site Layout—Level One (2)
      and CTT 117—Exterior Finish and Moisture Protection (2)
      and CTT 118—Roofing, Stairs and Metal Studs Applications (3)
      and CTT 119—Drywall and Interior Finish Applications (5) ...12
    CTT 199—Student Practicum I...3
    HLTH 122—First Aid and CPR...1

5. Minimum credits required..38.5

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements (See page 84. As part of the degree requirements, complete CTT 106 or TTCH 131 for the computation requirement.)

3. Complete the following construction trades technology certificate program requirements:
    CTT 100—Construction Technology Core (5)
      or CTT 101—Basic Construction Safety (1)
      and CTT 102—Introduction to Hand and Power Tools (1)
      and CTT 103—Introduction to Blueprint Reading (1)
      and CTT 104—Basic Communication and Employability
      Skills (2)..5
    CTT 110—Residential Carpentry—Level One (8.5)
      or CTT 111—Materials and Tools Used in the Trade (2.5)
      and CTT 112—Floor Systems, Wall and Ceiling Framing (2)
      and CTT 113—Roof Framing, Windows and Exterior Doors (2)
      and CTT 114—Introduction to Concrete Materials and
      Forms (2) 8.5
    CTT 115—Residential Carpentry—Level Two (12)
      or CTT 116—Reading Plans and Site Layout—Level One (2)
      and CTT 117—Exterior Finish and Moisture Protection (2)
      and CTT 118—Roofing, Stairs and Metal Studs Applications (3)
      and CTT 119—Drywall and Interior Finish Applications (5) ...12
    CTT 199—Student Practicum I...3
    HLTH 122—First Aid and CPR...1

4. Complete the following program (major) requirements:*
    CTT 150—Plumbing—Level One (4)
      or CTT 151—Introduction to Plumbing Tools and Plumbing
      Drawings (1)
      and CTT 152—Introduction to Plumbing Math (1)
      and CTT 153—Plastic and Copper Pipe and Fittings (1)
      and CTT 154—Fixtures, Faucets, and Venting Systems (1)......4
    CTT 155—Plumbing—Level Two (8)
      or CTT 156—Intermediate Math and Reading Commercial
      Drawings (2)
      and CTT 157—Installing and Testing DWV Piping and Other
      Drains (2)
      and CTT 158—Valves, Faucets and Fixtures: Installation and
      Testing (3)
      and CTT 159—Fuel Gas Systems (1) 8
    CTT 170—Residential Electrical—Level One (9)
      or CTT 171—Electrical Safety and Electric Theory (2)
      and CTT 172—Alternating Current, Electrical Test Equipment and
      the NEC (2)
      and CTT 173—Raceways, Boxes, Fittings and Hand Bending (2.5)
      and CTT 174—Boxes, Fittings, Conductors, Terminations and
      Splices (2.5) 9
    CTT 175—Residential Electrical—Level Two (8)
      or CTT 176—Electrical Blueprint Reading, Wiring Devices, and
      Raceway, Box and Fitting Fill (2)
      and CTT 177—Wiring: Commercial and Residential, and
      Grounding (2)
      and CTT 178—Circuit Breakers, Fuses and Electric Services (2)
      and CTT 179—Lighting Fixtures and Related Components (2)8
    CTT 299—Student Practicum II 1.5
5. Minimum credits required 75

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

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

Culinary Arts

College of Rural and Community Development
Tanana Valley Campus
(907) 455-2800
www.tvc.uaf.edu/programs/cah-info.html

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 80).

2. Complete the certificate requirements (page 82).

3. Complete the following:
   CAH 105—Principles of Food Service 3
   CAH 140—Food Production I 5
   CAH 145—Bakery Production I...5
   CAH 150—Sanitation..1
   CAH 152—Supervisory Development..2
   CAH 161—Pastry Tube Art 1
   CAH 256—Food Service Accounting..2

4. Complete 2 credits from the following culinary specialty electives:
   CAH 117—Art in Cake Icing 2
   CAH 154—Dining Room Service 2
   CAH 160—Principles of Nutrition...2
   CAH 170—Gourmet Cooking...2
   CAH 171—Gourmet Baking 2
   CAH 172—Gourmet Asian/Oriental Cooking 2
   CAH 175—Introduction to Meat Cutting 2
   CAH 257—Oenology-Hospitality Industry I.................................1
   CAH 258—Oenology-Hospitality Industry II 1

5. Complete one of the following concentrations:
   a. Culinary Arts
   CAH 141—Food Production II 5
   CAH 146—Bakery Production II..5
   b. Culinary Arts: Baking
   CAH 146—Bakery Production II..5
   CAH 247—Bakery Production III 5
   c. Culinary Arts: Cooking
   CAH 141—Food Production II 5
   CAH 242—Food Production III 5

6. Minimum credits required 37

Major—A.A.S. Degree

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements (page 84).

3. Complete the following program (major) requirements:*
   CAH 105—Principles of Food Service 3
   CAH 140—Food Production I 5
   CAH 141—Food Production II 5
   CAH 145—Bakery Production I...5
   CAH 146—Bakery Production II..5
   CAH 150—Sanitation..1
   CAH 152—Supervisory Development..2
   CAH 242—Food Production III 5
   CAH 243—Food Production IV 5
   CAH 247—Bakery Production III 5
   CAH 248—Bakery Production IV 5
   CAH 250—Garde-Manger...2
   CAH 253—Storeroom Purchasing and Receiving..........................2
   CAH 255—Food Service Management...2
   CAH 256—Food Service Accounting..2

4. Minimum credits required 69

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

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

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: 41 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.

1. Complete the general university requirements (page 80).

2. Complete the certificate requirements (page 82). As part of the certificate requirements, the computation content is embedded in the major required courses for this program.

Major Requirements

3. Complete the following:
   DSLT 121—Drive Axles 1
   DSLT 122—Heavy Duty Drivelines.. 1
   DSLT 123—Heavy Duty Braking Systems....................................... 2
   DSLT 135—Internal Combustion Engines...................................... 5
   DSLT 154—Diesel Fuel Injection.. 2
   DSLT 201—Manual Transmissions and Differentials...................... 4
   DSLT 202—Heavy Duty Automatic Transmissions......................... 2
   DSLT 253—Diesel Fuel Delivery Systems...................................... 5
   DSLT 254—Advanced Engine Overhaul 4
   DSLT 255—Final Drives, Tracked Vehicles.................................... 2
   MECN 103—Starting and Charging Systems................................. 1
   MECN 210—Hydraulics 2
   WMT 103—Welding I... 3
   WMT 105—Welding II.. 3

4. Minimum credits required 41

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

Drafting Technology

College of Rural and Community Development
Tanana Valley Campus
(907) 455-2868
www.tvc.uaf.edu/programs/draft-info.html

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 80).

2. Complete the certificate requirements (page 82).

3. Complete the following program requirements:
   DRT 101—Introduction to Drafting 3
   DRT 110—Computer Literacy for Drafting 3
   DRT 170—Beginning AutoCad..3
   DRT 210—Intermediate AutoCad 3
   PRT 101—Introduction to Process Technology............................3
   PRT 110—Introduction to Occupational Safety 3
   PRT 117—Drafting for Technicians 3

4. Complete 6 credits from the following or program coordinator-approved electives:
   DRT 115—Graphics I 3
   DRT 121—Building Trades Blueprint Reading 3
   DRT 123—Uniform Building Code..3
   DRT 140—Architectural Drafting..3
   DRT 150—Surveying Applications 3
   DRT 160—Drafting Internship 1–6
   DRT 270—Advanced AutoCad 3
   ES 101—Introduction to Engineering 3

5. Minimum credits required 36

   Note: DRT 140, 141, 150 and 151 are available through the Center for Distance Education and Independent Learning. For information phone (907) 474-5353.

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

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/

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 30 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 80).
2. Complete the following certificate requirements:
   a. Complete one of the following communication courses:
      ENGL 111X—Introduction to Academic Writing...........................3
      COMM 131X—Fundamentals of Oral Communication:
         Group Context..3
      COMM 141X—Fundamentals of Oral Communication:
         Public Context..3
   b. Complete one of the following computation courses:
      ECE 117—Math Skills for Early Childhood Educators 3
      Any MATH course at the 100-level or above...................................3
   c. Complete the following human relations course:*
      ECE 245—Child Development 3
3. Complete the following:*
   ECE 101—Introduction to Early Childhood Profession.................3
   ECE 111—Nutrition for Young Children..1
   ECE 110—Safe, Healthy, Learning Environments (3)
      or ECE 112—Healthy Learning Environments for
         Young Children (1)
      and ECE 113—Safe Environments for Young Children (1)
      and ECE 114—Learning Environments for
         Young Children (1)...3
   ECE 120A—Curriculum I (3)
      or ECE 105—Developmentally Appropriate Practice (1)
      and ECE 121—Physical Activities for Young Children (1)
      and ECE 123—Language and Literature Activities for Young
         Children (1)..3
   ECE 120B—Curriculum II (3)
      or ECE 122—Cognitive Activities for Young Children (1)
      and ECE 124—Creative Activities for Young Children (1)
      and ECE 125—Math Activities (1)..3
   ECE 132—Young Child and the Family...1
   ECE 140—Positive Social Development (3)
      or ECE 141—Class Management (1)
      and ECE 142—Social Development of the Young Child (1)
      and ECE 143—Developing Positive Self-Concepts in Young
         Children (1) 3
   ECE 170—Practicum I** (3)
      or ECE 171—Program Management (1)
      and ECE 172—Professionalism (1)
      and ECE 173—Reflective Teaching (1) 3
   Elective credit..1
4. Minimum credits required...30

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

** *Students holding a Child Development Associate Credential (CDA) may enroll in ECE 170—Practicum I for 1 credit. Students without a CDA must enroll for 3 credits.*

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Major—A.A.S. Degree

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements. (See page 84. As part of the A.A.S. degree requirement, complete ECE 117 or CIOS 116 or any course at the 100-level or above in mathematical sciences for the computation requirement, and ECE 245* for the human relations requirement.)

3. Complete the following:*
   ECE 101—Introduction to Early Childhood Profession 3
   ECE 111—Nutrition for Young Children 1
   ECE 110—Safe, Healthy, Learning Environments (3)
       or ECE 112—Healthy Learning Environments for
           Young Children (1)
       and ECE 113—Safe Environments for Young Children (1)
       and ECE 114—Learning Environments for
       Young Children (1)...3
   ECE 120A—Curriculum I (3)
       or ECE 105—Developmentally Appropriate Practice (1)
       and ECE 121—Physical Activities for Young Children (1)
       and ECE 123—Language and Literature Activities for
           Young Children (1)..3
   ECE 120B—Curriculum II..3
       or ECE 122—Cognitive Activities for Young Children (1)
       and ECE 124—Creative Activities for Young Children (1)
       and ECE 125—Math Activities (1) 3
   ECE 130—Culture, Learning and the Young Child........................2
   ECE 140—Positive Social Development (3)
       or ECE 141—Class Management (1)
       and ECE 142—Social Development of the Young Child (1)
       and ECE 143—Developing Positive Self-Concepts in Young
       Children (1)...3
   ECE 170—Practicum I** (3)
       or ECE 171—Program Management (1)
       and ECE 172—Professionalism (1)
       and ECE 173—Reflective Teaching** (1)................................3
   ECE 210—Child Guidance..3
   ECE 220—Infant and Toddler Care..................................3
   ECE 230—Introduction to Children with Special Needs..............3
       or ECE 240—Inclusion of Children with Special Needs...........3
   ECE 270—Practicum II 3
   Complete a 3 credit course on families. Options include
       HUMS 140, SOC 242, ECE 301, ECE 342 or other advisor
       approved family course.
   Electives approved by advisor.......................................9

4. Minimum credits required 60

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

   ** Students holding a Child Development Associate Credential (CDA) may enroll in ECE 170—Practicum I for 1 credit. Students without a CDA must enroll for 3 credits.

Minor

1. Complete the following:
   ECE 101—Introduction to Early Childhood Profession 3

2. Complete 15 ECE credits, including a minimum of 6 upper-division ECE credits.*...15

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.

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

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 80).

2. Complete the certificate requirements (page 82).

3. Complete the following core requirements:
   CIOS 100—Intro to Personal Computers 1
   ED 110—Becoming a Teacher in the 21st Century.........................1
   PSY 101—Intro to Psychology 3
   EDPA 190—Integrating Local Knowledge into the Curriculum.....1
   EDPA 199—Practicum 1
   EDPA 210—Technology in the Classroom.....................................1
   ECE/PSY 245—Child Development..3

4. Complete the following program requirements:
   EDPA 110—Intro to Para-Professional Education 2
   EDPA 120—Classroom Management..2
   EDPA 130—Differentiating Instruction 2
   EDPA 140—Developing Children as Writers.................................1
   EDPA 150—Developing Children as Readers 1
   EDPA 160—Primary Math Methods (1)
       or EDPA 170—Upper Elementary Math Methods (1) 1
   EDPA 250—Current Topics for Educators (1)
       or EDPA 299—Practicum II (1).................................1

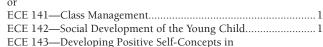5. Minimum credits required.......................................30

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements (page 84).

3. Complete the following program requirements:*
   CIOS 100—Intro to Personal Computers 1
   PSY 101—Intro to Psychology 3
   ED 110—Becoming a Teacher in the 21st Century.........................1
   EDPA 110—Intro to Para-Professional Education 2
   EDPA 120—Classroom Management..2
   EDPA 130—Differentiating Instruction 2
   EDPA 140—Developing Children as Writers.................................1
   EDPA 150—Developing Children as Readers 1
   EDPA 160—Primary Math Methods (1)
       or EDPA 170—Upper Elementary Math Methods (1) 1
   EDPA 190—Integrating Local Knowledge into the Curriculum.....1
   EDPA 199—Practicum I..1
   EDPA 210—Technology in the Classroom.....................................1
   EDPA 250—Current Topics for Educators (1)
       or EDPA 299—Practicum II (1).................................1
   ECE/PSY 245—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
   ANL 199—Practicum in Native Language Education.....................3
   ANL 251—Introduction to Athabascan Linguistics.......................3
   ANL 255—Introduction to Alaska Native Languages:
       Eskimo-Aleut (3)
       or ANL 256—Introduction to Alaska Native Languages:
       Indian Languages (3) 3
   ANL 287—Teaching Methods of Alaska Native Languages 3
   ANL 288—Curriculum & Materials Development for ANL...........3
   ANL Elective...3

   Elementary Education
   ED 102—Orientation to Alaska Native Education.........................2
   ED 201—Introduction to Education...3
   ED Elective 3

   Special Education
   ED 201—Introduction to Education...2
   ECE 230—Introduction to Children with Special Needs...............3
   ECE 240—Inclusion of Children with Special Needs....................3
   ECE Elective...3

   Counseling/Social Work
   HUMS 120—Cultural Diversity in Human Services 3
   HUMS 125—Introduction to the Addictive Process 3
   HUMS 205—Basic Principles of Group Counseling 3
   HUMS Elective 3

   Early Childhood Education
   ECE 105—Developing Appropriate Practice 1
   ECE 120—Curriculum and Activities for Young Children.............4
   or
   ECE 121—Physical Activities for Young Children..........................1
   ECE 122—Cognitive Activities for Young Children 1
   ECE 123—Communicative Activities...1
   ECE 124—Creative Activities for Young Children.........................1
   ECE 130—Culture, Learning and the Young Child 1
   ECE 140—Positive Social Development 3
   or
   ECE 141—Class Management...1
   ECE 142—Social Development of the Young Child.......................1
   ECE 143—Developing Positive Self-Concepts in

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu

UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Information Technology Specialist

Rural Development

5. Minimum credits required 60

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

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

Emergency Services

College of Rural and Community Development
Tanana Valley Campus
(907) 455-2823
www.tvc.uaf.edu/programs/info/emer-info.html

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 80).

2. Complete the A.A.S. degree requirements (page 84).

3. Complete the following program (major) requirements:*
   EMS 170—EMT: Emergency Medical Technician I..........................6
   EMS 181—Clinical Rotation I...4
   EMS 183—Clinical Rotation II..4
   EMS 280—Paramedicine I 12
   EMS 282—Paramedicine II 12
   EMS 283—Paramedic Internship..12
   HLTH 114—Fundamentals of Anatomy and Physiology (4)
       or BIOL 111X and 112X 4

4. Minimum credits required 69-73

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

Hazardous Materials Control

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements (page 84).

3. Complete the following program (major) requirements:*
   a. Complete the following:
   EMS 170—EMT: Emergency Medical Technician I..........................6
   FIRE 110—Introduction to Hazardous Waste Operations and
       Emergency Response..3
   FIRE 121—Fire Behavior and Combustion 3
   FIRE 131—Fire Fighter I Series I..3
   FIRE 133—Fire Fighter I Series II...3
   FIRE 135—Fire Fighter I Series III 3
   FIRE 137—Fire Fighter I Series IV 3
   FIRE 203—Hazardous Materials Chemistry I.................................3
   FIRE 205—Hazardous Materials Chemistry II................................3
   FIRE 209—Hazardous Materials Command/Safety Officer.............3
   FIRE 210—Fire Administration I..3

b. Complete 9 credits from the following major elective courses:
   FIRE 207—Hazardous Materials Technician..................................3
   FIRE 212—Building and Fire Codes..3
   FIRE 215—Advanced Hazardous Materials Technician.................3
   FIRE 216—Methods of Instruction for Emergency
       Services Training...3
   FIRE 231—Hazardous Materials Tactical Operations....................3
   FIRE 249—Computer Aided Management of
       Emergency Operations..3
   FIRE 293—Special Topics 3

4. General electives...6

5. Minimum credits required...66

   * 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 80).

2. Complete the A.A.S. degree requirements (page 84).

3. Complete the following program (major) requirements:*
   a. Complete the following:
   EMS 170—EMT: Emergency Medical Technician I..........................6
   FIRE 101—Principles of Emergency Services................................3
   FIRE 105—Fire Prevention...3
   FIRE 107—Strategy and Tactics...3
   FIRE 117—Rescue Practices 3
   FIRE 121—Fire Behavior and Combustion 3
   FIRE 131—Fire Fighter I Series I...3
   FIRE 133—Fire Fighter I Series II..3
   FIRE 135—Fire Fighter I Series III.......................................3
   FIRE 137—Fire Fighter I Series IV 3
   FIRE 202—Fire Protection Hydraulics and Water Supply.............3
   FIRE 203—Hazardous Materials Chemistry I................................3
   FIRE 206—Building Construction for Fire Protection 3
   FIRE 210—Fire Administration I...3
   FIRE 214—Fire Protection Systems..3
   b. Complete 6 credits from the following major specialty electives:
   FIRE 115—Fire Apparatus and Equipment 3
   FIRE 123—Fire Investigations I...3
   FIRE 151—Wildland Fire Control I...3
   FIRE 205—Hazardous Materials Chemistry II...............................3
   FIRE 212—Building and Fire Codes...3
   FIRE 216—Methods of Instruction for Emergency
       Services Training...3
   FIRE 218—Advanced Rescue Practices.......................................3
   FIRE 232—Fire Fighter II 3
   EMS 261—EMT: Emergency Medical Technician II 3

4. Minimum credits required...69

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

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

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Public Safety

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements (page 84).

3. Complete the following program (major) requirements:*
   a. Complete the following:
   AVTY 231/EMS 257—Arctic Survival..3
   EMS 170—EMT: Emergency Medical Technician I.......................6
   EMS 176—Aeromedical Evacuations in Alaska 1
   FIRE 101—Principles of Emergency Services..............................3
   FIRE 105—Fire Prevention...3
   FIRE 117—Rescue Practices 3
   FIRE 127—Vessel Safety: Emergency Equipment
      and Procedures...1
   FIRE 131—Firefighter I, Series I 3
   FIRE 133—Firefighter I, Series II..3
   FIRE 135—Firefighter I, Series III 3
   FIRE 137—Firefighter I, Series IV 3
   FIRE 218—Advanced Rescue Practices...3
   JUST 110—Introduction to Justice 3
   JUST 340—Rural Justice in Alaska 3
   JUST 358—Juvenile Delinquency 3
   b. Complete 9 credits from the following major electives:
   EMS 261—EMT: Emergency Medical Technician II 3
   FIRE 123—Fire Investigations I...3
   FIRE 151—Wildland Fire Control I..3
   FIRE 212—Building and Fire Codes..3
   FIRE 216—Methods of Instruction for Emergency
      Services Training..3
   JUST 345W—Police Problems..3
   JUST 352—Criminal Law..3
   JUST 354—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 80).

2. Complete the A.A.S. degree requirements (page 84).

3. Complete the following program (major) requirements:*
   a. Complete the following:
   EMS 170—EMT: Emergency Medical Technician I.......................6
   FIRE 131—Firefighter I, Series I 3
   FIRE 133—Firefighter I, Series II..3
   FIRE 135—Firefighter I, Series III 3
   FIRE 137—Firefighter I, Series IV 3
   FIRE 151—Wildland Fire Control I..3
   FIRE 153—Advanced Wildland Firefighter 3
   FIRE 155—Wildland Fire Behavior 3
   FIRE 157—Wildland Air Operations and Safety...........................3
   FIRE 159—Wildland Fire Operations Function 3
   FIRE 252—Wildland Fire Prevention 3
   FIRE 254—Wildland Fire Finance Function 3
   FIRE 262—Wildland Fire Control II...3
   b. Complete 12 credits from the following major elective courses:
   FIRE 161—Wildland Fire Logistics Function................................3
   FIRE 165—Wildland Fire Planning Function................................3
   FIRE 216—Methods of Instruction for Emergency
      Services Training..3
   FIRE 256—Wildland Fire Planning and Multiple
      Use Management...3
   FIRE 258—Wildland Fuels Management..3
   FIRE 270—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 131—Firefighter I, Series I 3
   FIRE 133—Firefighter I, Series II..3
   FIRE 135—Firefighter I, Series III 3
   FIRE 137—Firefighter I, Series IV 3
   EMS 170—Emergency Medical Technician I 6

2. Minimum credits required..18

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

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 (907) 474-5757
Tanana Valley Campus (907) 455-2800
Human Services Program (907) 455-2842
www.tvc.uaf.edu/programs/info/hst-info.html

A.A.S. Degree

Minimum Requirements for Degree: 60 credits

Students in the human services program receive skills-based training based on a foundation of theory. After completing foundation courses, students select an area of concentration (addictions counseling, mental health and developmental disabilities, residential care, supervision and management in human services, or workforce development). They learn interviewing and assessment, case management, crisis intervention, group counseling and 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 completing a concentration will receive a credential from the human service program. Those who complete an addictions concentration are eligible for certification as substance abuse counselor technicians through the Alaska Commission for Chemical Dependency Professionals certification board. A credential in family empowerment is also offered to students who complete specific classes.

Each concentration is available to B.A. degree students as a minor. The B.A. degree student must complete the concentration and six 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, Mental Health and Developmental Disabilities, Residential Care, Supervision and Management in Human Services, Workforce Development

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements (page 84. As part of the A.A.S. degree requirements, complete: PSY 101 for the social sciences requirement.)

3. Complete the following:*
   HUMS 120—Cultural Diversity in Human Services 3
   HUMS 125—Introduction to Addictive Processes 3
   HUMS 215—Individual Interviewing 3
   HUMS 232—Human Service Practicum I 3
   HUMS 233—Human Service Practicum II 3
   HUMS 301—Ethics in Human Service...3
   PSY 240—Lifespan Developmental Psychology (3)
       or ECE 245—Child Development (3) 3
   SWK 103—Introduction to Social Work (3)
       or JUST 110—Introduction to Justice (3)................................3

4. Complete one of the following family courses for all concentrations except for Behavioral Health:*
   ECE 342O—Family Relationships 3
   HUMS 140—Family Empowerment I 3
   RHS 120—Family Systems I...2
   SOC 242—The Family: A Cross-Cultural Perspective....................3

5. Complete 3 credits from the following for all concentrations except behavioral health which requires 6 credits including both HUMS 210 and 310:*
   HUMS 205—Basic Principles of Group Counseling 3
   HUMS 210—Crisis and Grief Counseling......................................3
   HUMS 310—Management of Complex Cases.................................3

6. Complete one of the following concentrations:*

   Addictions Counseling
   a. Complete the following:
      HUMS 205—Basic Principles of Group Counseling 3
      HUMS 305—Substance Abuse Counseling 3
   b. Complete a minimum of 6 credits from the following:
      HUMS 105—Personal Awareness and Growth............................2-3
      HUMS 260—History of Alcohol in Alaska 1
      HUMS 261—Substance Abuse Assessment: ASAM PPC II 1
      HUMS 262—Pharmacology of Addictions.....................................1
      HUMS 263—Service Delivery—ARND (FAS/E) 1
      HUMS 264—Cultural Considerations in Providing
          Chemical Dependency Services to Alaska Native People 1
      HUMS 265—Substance Abuse and the Family 2
      HUMS 266—Dual Diagnosis Intervention and Treatment..............2
      HUMS 270—Adolescent Issues and Therapeutic Interventions (3)
          or HUMS Program Coordinator approved course of up to 3 credits
          including HUMS 250—Current Issues Courses (3) 3

   Behavioral Health
   a. Complete the following:
      HUMS 130—Introduction to Mental Health and
          Developmental Disabilities 3
      HUMS 250—Introduction to Behavioral Health Careers 3
      HUMS 261—Substance Abuse Assessment: ASAM PPC II 1
      HUMS 263—Service Delivery—ARND (FAS/E) 1
      HUMS 266—Dual Diagnosis Intervention and Treatment..............1
      HUMS 305—Substance Abuse Counseling 1
      EMS 152—Emergency Trauma Training First Responder..............3

   Mental Health and Developmental Disabilities
   a. Complete the following:
      HUMS 130—Introduction to Mental Health and Developmental
          Disabilities (3)
          or HUMS 135—Introduction to Mental Illness (PWSCC) (2)
          or HUMS 183—Community Services for People with
          Disabilities (PWSCC) (3)
          or RHS 275—Introduction to Recovery and
          Mental Illness (2)..2-3
      HUMS 205—Introduction to Human Exceptionality (PWSCC) 3
      HUMS 231—Applied Behavioral Analysis I (PWSCC) 3
   b. Complete 3 credits from the following:
      HUMS 252—Employment Support Services (PWSCC)..................3
      HUMS 253—Positive Behavioral Supports (PWSCC).....................3
      HUMS 255—Assistive Technology (PWSCC)................................3
      Or other approved course...3

   Note: This concentration is offered in collaboration with Prince William Sound Community College through distance delivery.

   Note: For course descriptions of PWSCC courses see current Prince William Sound Community College catalog.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Residential Care
a. Complete the following:
HUMS 170—Residential Child Care 3
HUMS 263—Service Delivery—ARND (FAS/E) 1
HUMS 270—Adolescent Issues and Therapeutic Interventions 3
HUMS 271—Managing Aggressive Behavior 1
HUMS 272—Attachment, Separation and Loss 1
b. Complete 3 additional approved elective credits........................3
Note: Not guaranteed to be available via distance delivery.

Supervision and Management in Human Services
a. Complete the following:
ABUS 179—Fundamentals of Supervision.....................................3
ABUS 232—Contemporary Management Issues............................3
HUMS 310—Management of Complex Cases................................3
b. Complete 3 credits from the following:....................................3
RD 250—Grant Writing for Community Development...............1-3
RD 351—Strategic Planning for Rural Communities....................3
ABUS 231—Introduction to Personnel 1-3
HUMS 233—Human Service Practicum II (repeated for credit).....3

Workforce Development
a. Complete the following:
HUMS 150—Workforce Development I...3
HUMS 255—Workforce Development II 3
HUMS 310—Management of Complex Cases................................3
b. Complete 3 HUMS elective credits. 3
Note: Not guaranteed to be available via distance delivery.

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

For holders of the rural human services certificate in the following concentrations:

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements (page 84). As part of the A.A.S. degree requirements, complete PSY 101 for the social sciences requirement.)

3. Complete the rural human services certificate.

4. Complete the following:*
HUMS 301—Ethics in Human Service..3
SWK 103—Introduction to Social Work (3)
or JUST 110—Introduction to Justice (3).................................3
PSY 240—Lifespan Developmental Psychology (3)
or ECE 245—Child Development (3) 3

5. Complete one of the following:*
ECE 342O—Family Relationships...3
HUMS 140—Family Empowerment I 3
SOC 242—The Family: A Cross-Cultural Perspective....................3
RHS 120—Family Systems I...2

6. Complete 6-9 credits from 1 of the following concentrations: *

Addictions Counseling
a. Complete the following:
HUMS 205—Basic Principles of Group Counseling 3
HUMS 260—History of Alcohol in Alaska.....................................1
HUMS 305—Substance Abuse Counseling....................................3
b. Complete at least 2 credits from the following:
HUMS 105—Personal Awareness and Growth............................2-3
HUMS 261—Substance Abuse Assessment: ASAM PPC II 1
HUMS 262—Pharmacology of Addictions.....................................1
HUMS 263—Service Delivery—ARND (FAS/E) 1
HUMS 264—Cultural Considerations in Providing
Chemical Dependency Services to Alaska Native People 1
HUMS 265—Substance Abuse and the Family 2
HUMS 266—Dual Diagnosis Intervention and Treatment.............2

Mental Health and Developmental Disabilities
a. Complete the following:
HUMS 205—Introduction to Human Exceptionality (PWSCC) 3
HUMS 231—Applied Behavioral Analysis I (PWSCC) 3
b. Complete 3 credits from the following:
HUMS 130—Introduction to Mental Health and Developmental
Disabilities (3)
or HUMS 135—Introduction to Mental Illness (PWSCC) (2)
or HUMS 183—Community Services for People with Disabilities
(PWSCC) (3)
or RHS 275—Introduction to Recovery and
Mental Illness (2)..2-3
HUMS 252—Employment Support Services (PWSCC)..................3
HUMS 253—Positive Behavioral Supports (PWSCC)....................3
HUMS 255—Assistive Technology (PWSCC)................................3
Or other approved course..3
Note: This concentration is offered in collaboration with Prince William Sound Community College through distance delivery.

Note: For course descriptions of PWSCC courses see current Prince William Sound Community College catalog.

Residential Care
a. Complete the following:
HUMS 170—Residential Child Care 3
HUMS 263—Service Delivery—ARND (FAS/E) 1
HUMS 270—Adolescent Issues and Therapeutic Interventions 3
HUMS 271—Managing Aggressive Behavior 1
HUMS 272—Attachment, Separation and Loss 1
b. Complete 3 approved elective credits..3
Note: Not guaranteed to be available via distance delivery.

Supervision and Management in Human Services
a. Complete the following:
ABUS 179—Fundamentals of Supervision.....................................3
ABUS 232—Contemporary Management Issues............................3
HUMS 310—Management of Complex Cases................................3

Workforce Development
a. Complete the following:
HUMS 150—Workforce Development I...3
HUMS 255—Workforce Development II 3
HUMS 310—Management of Complex Cases................................3
b. Complete HUMS elective credits. 3
Note: Not guaranteed to be available via distance delivery.

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

Note: Certificates of Completion (Credentials) will be awarded by the human services program for each concentration completed.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Minor

1. Complete one concentration in human services 12
2. Complete HUMS elective credits 6
3. Minimum credits required 18

Substance Abuse Counselor Certification by the State of Alaska

1. Complete the following:*
   HUMS 125—Introduction to Addictive Processes 3
   HUMS 205—Basic Principles of Group Counseling 3
   HUMS 210—Crisis and Grief Counseling......................................3
   HUMS 215—Individual Interviewing 3
   HUMS 260—History of Alcohol in Alaska 1
   HUMS 301—Ethics in Human Service..3
   HUMS 305—Substance Abuse Counseling 3

   The Alcohol and Drug Abuse Certification Review Board has approved the following courses for 45 training hours each toward certification or recertification of substance abuse counselors in the state of Alaska.

   Note: Currently certified substance abuse counselors are eligible for transfer credit toward the human services degree. Contact the human services program coordinator at (907) 455-2842 for more information.

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

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/programs/info/mcs-info.html

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 32–33 credits; for A.A.S.
Degree: 60 credits

The certificate program trains students in the entry-level skills required
to provide microcomputer support in educational, governmental and
corporate settings, or to begin their own enterprises in the field.

The A.A.S. degree program builds on the certificate program through
additional general education and skill development in microcomputer
support. Graduates are qualified for more advanced positions such as
the state of Alaska's microcomputer/network specialist I and II.

As computer complexity increases, more and more employers are
looking for workers with specific training in computer technology and
support skills. The state of Alaska's microcomputer/network technician
I and II are examples of such positions. Students not interested in
employment opportunities may enroll in these programs to improve
their computer skills.

Minimum computer knowledge is required for admission to either
program. An individualized program of courses, projects, readings,
practica and other activities is designed with the help of a faculty mentor
based on the student's background and skill level. Students must achieve
competency in applications, networking, troubleshooting, hardware and
software configuration, and human relations and support.

This degree program is delivered collaboratively within the UA
system.

Certificate Program

1. Complete the general university requirements (page 80).

2. Complete the following certificate requirements (or demonstrate
   competency):
   ENGL 111X—Introduction to Academic Writing (3)
      or ABUS 170—Business English (3)
      or approved applied written communication course (3)...........3
   ABUS 155—Business Math (2)
      or approved math course at the 100-level or above (3).............3
   ABUS 154—Human Relations (3)
      or approved human relations course (3) 3

3. Complete the following core courses*:
   CIOS 110—Microcomputer Operating Systems** (3)
      or CIOS 212—Advanced Microcomputer
      Operating Systems (3) 3
   CIOS 210—Hardware and Software Configuration and
      Troubleshooting*** 3
   CIOS 211—Computer Technical Support*** 3
   CIOS 245—Networking and Communications*** (3)
      or CIOS 247—Advanced Networking and
      Communications (3)..3
   CIOS 276—Independent Project*** (3)
      or CIOS 282—Cooperative Work Experience*** (3) 3

4. Complete 9 credits from the following (or demonstrate
   competency)*:
   CIOS 105—Computer Software Applications.................................3
   CIOS 130—Microcomputer Word Processing 3
   CIOS 133—Microcomputer Presentation Software........................3
   CIOS 135—Microcomputer Spreadsheets......................................3
   CIOS 146—Using the Internet...3
   CIOS 212—Advanced Microcomputer Operating Systems.............3
   CIOS 215—Information Technology Certification I 3
   CIOS 216—Information Technology Certification II......................3
   CIOS 217—Information Technology Certification III.....................3
   CIOS 218—Information Technology Certification IV.....................3
   CIOS 233—Desktop Publishing...3
   CIOS 234—Advanced Desktop Publishing....................................3
   CIOS 240—Microcomputer Databases...3
   CIOS 242—Advanced Databases..3
   CIOS 246—Advanced Internet...3
   CIOS 247—Advanced Networking and Communications..............3
   CIOS 251—Integrated Software 3
   CIOS 255—Microcomputer Graphics..3
   CIOS 256—Internet Authoring and Design...................................3
   CIOS 270—Microcomputer Programming 3
   CIOS 275—Information Technology: Special Topics **** 3

5. Pass a certification review of the following skill areas:
   Application Skills
   Networking Skills
   Hardware and Software Configuration and Troubleshooting Skills
   Independent Thinking Skills
   Human Relations and Support Skills

6. Minimum credits required 32-33

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Major—A.A.S. Degree

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements. (See page 84. As part of the human relations requirement complete ABUS 154 or approved human relations course.)

3. Complete the following core courses:*
   CIOS 110—Microcomputer Operating Systems** (3)
     or CIOS 212—Advanced Microcomputer
     Operating Systems (3) 3
   CIOS 210—Hardware and Software Configuration and
     Troubleshooting*** 3
   CIOS 211—Computer Technical Support*** 3
   CIOS 245—Networking and Communications*** (3)
     or CIOS 247—Advanced Networking and
     Communications (3) 3
   CIOS 276—Independent Project*** (3)
     or CIOS 282—Cooperative Work Experience*** (3) 3

4. Complete 15 credits from the following degree (major) requirements (or demonstrate competency):*
   CIOS 105—Computer Software Applications**** 3
   CIOS 130—Microcomputer Word Processing 3
   CIOS 133—Microcomputer Presentation Software........................ 3
   CIOS 135—Microcomputer Spreadsheets..................................... 3
   CIOS 146—Using the Internet 3
   CIOS 212—Advanced Microcomputer Operating Systems............. 3
   CIOS 215—Information Technology Certification I 3
   CIOS 216—Information Technology Certification II..................... 3
   CIOS 217—Information Technology Certification III.................... 3
   CIOS 218—Information Technology Certification IV.................... 3
   CIOS 233—Desktop Publishing.. 3
   CIOS 234—Advanced Desktop Publishing.................................. 3
   CIOS 240—Microcomputer Databases...................................... 3
   CIOS 242—Advanced Databases.. 3
   CIOS 246—Advanced Internet.. 3
   CIOS 247—Advanced Networking and Communications.............. 3
   CIOS 251—Integrated Software 3
   CIOS 255—Microcomputer Graphics....................................... 3
   CIOS 256—Internet Authoring and Design................................ 3
   CIOS 270—Microcomputer Programming 3
   CIOS 275—Information Technology: Special Topics **** 3

5. Complete CIOS electives* 6

6. Complete general electives (may be CIOS courses) 6

7. Pass a certification review of the following skill areas:
   Application Skills
   Networking Skills
   Hardware and Software Configuration and Troubleshooting Skills
   Independent Thinking Skills
   Human Relations and Support Skills

8. Minimum credits required 60

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

   ** *May be satisfied through credit by exam or prior learning.*

   *** *May not be satisfied through credit by exam or prior learning under any circumstances and constitutes a culminating experience for the course sequence.*

   **** *May be repeated for different topics.*

   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.

   Note: A 9 credit core sequence, required of all students no matter what their level of expertise, will be assessed by a committee of permanent and adjunct faculty for the final granting of the certificate or degree.

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS

Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu

UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Instrumentation Technology

College of Rural and Community Development
Tanana Valley Campus
(907) 455-2868
www.tvc.uaf.edu

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 degree requirements (page 80).
2. Complete the certificate requirements (page 82).
3. Complete the following program requirements:
   ELT 101—Basic Electronics: DC Physics 4
   ELT 102—Basic Electronics: AC Physics 4
   ELT 246—Electronic Industrial Instrumentation 3
   PRT 140—Industrial Process Instrumentation I 3
   PRT 144—Industrial Process Instrumentation II 3
   PRT 240—Industrial Process Instrumentation III.......................... 3
   PRT 248—Valve Maintenance and Instrumentation 3
4. Minimum credits required 32

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

Interdisciplinary Studies

Office of Interdisciplinary Programs
(907) 474-7716
fyinds@uaf.edu
www.uaf.edu/advising/degree/
www.uaf.edu/gradsch/general/degrees/INDS/inds_undergrad.html
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/general/degrees/INDS/.

Major

1. Contact the UAF Office of the Graduate School and Interdisciplinary Programs for materials and procedures.
2. Contact three faculty to serve as the INDS 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 instructional affairs for final approval.
7. Minimum credits required 60

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Law Enforcement Academy

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

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 110—Behavioral Science Strategies for Law Enforcement Officers ... 1
   LE 115—Enforcement Skills for Law Enforcement Officers 4
   LE 120—Law Enforcement Operations... 4
   LE 125—Basic Police Procedures.. 3
   LE 205—Criminal Law for Police Officers..................................... 4

2. Minimum credits required 16

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Mining Applications and Technologies

College of Rural and Community Development
Tanana Valley Campus
(907) 455-2868
www.tvc.uaf.edu/programs/protech-info.html

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 109 and/or AMIT 129, 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 degree requirements (page 80).

2. Complete the certificate requirements (page 82).

3. Complete the following program requirements for either option A or option B:

Option A: Surface and Underground Mining Techniques
AMIT 101—Introduction to Mining 3
AMIT 109—Underground Mine Safety 1
AMIT 110—Underground Mining I 3
AMIT 120—Explosives I 3
AMIT 129—Surface Mining Safety..1
AMIT 130—Surface Mining Operations 3
AMIT 155—Drilling Technology..3
AMIT 210—Underground Mining II...3
AMIT 220—Explosives II...3
AMIT 230—Field Methods 2

Option B: Mineral Processing Operations
AMIT 101—Introduction to Mining 3
AMIT 129—Surface Mining Safety..1
AMIT 130—Surface Mining Operations 3
AMIT 135—Introduction to Mining Systems and Equipment........4
AMIT 140—Environmental Permitting...1
AMIT 145—Introduction to Mineral Beneficiation.........................3
AMIT 154—Water Quality and Flocculants 3
AMIT 162—Geochemical Sampling...1
AMIT 230—Field Methods 2
AMIT 231—Heap Leaching..1
PRT 101—Introduction to Process Technology 3
PRT 110—Introduction to Occupational Safety, Health and
    Environmental Awareness...3
PRT 140—Industrial Process Instrumentation I 3

4. Minimum credits required .... 31 or 37

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

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 80).

2. Complete the certificate requirements. (See page 82. 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 108—Beginning Athabascan Literacy.....................................3
   ANL 199—Practicum in Native Language Education 6
   ANL 208—Advanced Athabascan Literacy.....................................3
   ANL 251—Introduction to Athabascan Linguistics 3
   ANL 256—Alaska Native Languages: History, Status
     and Maintenance 3
   ANL 287—Teaching Methods for Alaska Native Languages 3
   ANL 288—Curriculum and Materials Development for Alaska Native
     Languages 3
   ED 299—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 199—Practicum in Native Language Education 6
   ANL 256—Alaska Native Languages: History, Status
     and Maintenance 3
   ANL 287—Teaching Methods for Alaska Native Languages 3
   ANL 288—Curriculum and Materials Development for Alaska Native
     Languages 3
   ED 299—Practicum in Education 6
   ESK 118—Inupiaq Orthography..3
   ESK 218—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 109—Orthography 3
   ESK 130—Beginning Yup'ik Grammar 3
   ESK 208—Yup'ik Composition..3
   ESK 250—Yup'ik Literature for Children 3

ESK 251—Teaching Yup'ik Reading and Writing............................3
ANL 199—Practicum in Native Language Education....................3
ANL 256—Alaska Native Languages: History, Status
  and Maintenance..3
ANL 287—Teaching Methods for Alaska Native Languages...........3
ANL 288—Curriculum and Materials Development for
  Alaska Native Languages 3
ED 299—Practicum in Education..3

4. Minimum credits required...30

Major—A.A.S. Degree

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

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements (page 84).

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 108—Beginning Athabascan Literacy.....................................3
   ANL 199—Practicum in Native Language Education....................6
   ANL 208—Advanced Athabascan Literacy 3
   ANL 251—Introduction to Athabascan Linguistics........................3
   ANL 256—Alaska Native Languages: History, Status
     and Maintenance...3
   ANL 287—Teaching Methods for Alaska Native Languages...........3
   ANL 288—Curriculum and Materials Development for
     Alaska Native Languages 3
   ED 299—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 199—Practicum in Native Language Education....................6
   ANL 256—Alaska Native Languages: History, Status
     and Maintenance...3
   ANL 287—Teaching Methods for Alaska Native Languages...........3
   ANL 288—Curriculum and Materials Development for
     Alaska Native Languages 3
   ED 299—Practicum in Education..6
   ESK 118—Inupiaq Orthography 3
   ESK 218—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 109—Orthography 3
   ESK 208—Yup'ik Composition 3
   ESK 250—Yup'ik Literature for Children.......................................3
   ESK 251—Teaching Yup'ik Reading and Writing............................3
   ANL 199—Practicum in Native Language Education....................3
   ANL 256—Alaska Native Languages: History, Status
     and Maintenance...3
   ANL 287—Teaching Methods for Alaska Native Languages...........3
   ANL 288—Curriculum and Materials Development for
     Alaska Native Languages 3
   ED 299—Practicum in Education..3

4. Minimum credits required...60

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

   See Alaska Native Languages

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

Office Management and Technology

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/info/omt-info.html

Admission to the Certificate and A.A.S. programs is suspended.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Paralegal Studies

College of Rural and Community Development
Tanana Valley Campus
(907) 455-2800
www.tvc.uaf.edu/programs/info/pls-info.html

A.A.S. Degree

Minimum Requirements for Degree: 60 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. Its curriculum is approved by the American Bar Association.

Major—A.A.S. Degree

1. Complete ENGL 111X with a grade of C or better prior to admission to the program.

2. Complete the general university requirements (page 80).

3. Complete the A.A.S. degree requirements (page 84).

4. Complete the following:*
    CIOS 150—Computer Applications (3)
    or CIOS course appropriate for the skill level
    of the student (3) 3
    PLS 101—Introduction to Paralegal Studies 3
    PLS 210—Civil Procedure..3
    PLS 260—Computers in the Law Office 3
    PLS 280—Legal Research and Writing for Paralegals 3
    PLS 299—Paralegal Studies Internship 3
    PS 101—Introduction to American Government..........................3
    PS 303—Politics and the Judicial Process 3
    PS 435W—Constitutional Law I: Institutions and
    Governmental Powers (3)
    or PS 436—Constitutional Law II: Civil Rights and
    Civil Liberties (3)..3

5. Complete five of the following:*
    PLS 203—Torts..3
    PLS 213—Criminal Law for Paralegals 3
    PLS 215—Contracts/Real Property 3
    PLS 240—Family Law 3
    PLS 242—Employment and Administrative Law for Paralegals 3
    PLS 250—Probate Law 3
    PLS 275—Business Organizations...3
    PLS 293—(special topics course)..3

6. Complete law-related electives** 3

7. Minimum credits required...60

    Student must earn a C grade or better in each PLS, PS and CIOS course.

    **Students may meet this requirement by completing an additional PLS, ANS, CIOS, JUST or PS course; or by completing HUMS 215 or JRN 413.*

    Note: Students interested in the paralegal studies degree should consult the program coordinator before enrolling in paralegal classes. Transfer credits for paralegal courses completed at other institutions are subject to approval by the program coordinator.

Minor

1. Complete the following:
    PLS 101—Introduction to Paralegal Studies 3
    PLS electives 15

2. Minimum credits required...18

    Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Paramedic Academy

College of Rural and Community Development
Tanana Valley Campus
(907) 455-2895
www.tvc.uaf.edu

The Paramedic Academy prepares students to be able to take the National Registry's Paramedic exam. A passing score allows students to apply for a paramedic license through the Alaska State Medical Board and prepares students to take the national registry's paramedic exam.

Completion of EMS 170—Emergency Medical Technician I (6 credits) is a prerequisite for the Paramedic Academy. Completion of HLTH 114—Fundamentals of Anatomy and Physiology (4 credits) is recommended.

The Paramedic Academy offers the highest level of education obtainable for working in the pre-hospital environment. The most common entry level positions for paramedics are in an ambulance within a 911 emergency response system or in a non-emergency transport service. Paramedics may also be found working 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 who choose to do so 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 1988 DOT 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 travel outside of Alaska to complete a field internship 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 any questions or concerns.

Academy Requirements

1. Complete the following:
   EMS 181—Clinical Rotation I..4
   EMS 183—Clinical Rotation II..4
   EMS 280—Paramedicine I 12
   EMS 282—Paramedicine II 12
   EMS 283—Paramedic Internship 12
2. Total Credits..44

Admission Requirements

Application packets for the Paramedic Academy may be obtained from Tanana Valley Campus at (907)455-2895 or e-mail at ffcmk@uaf.edu. Students interested in applying for admission must complete a paramedic application. Applications will be reviewed by TVC's Paramedic Academy Advisory Board. Students will be notified about admission status and at that time will be allowed to register for classes through TVC. In keeping with certification requirements, class size is limited to 16 students.

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

Piloting, Professional

College of Rural and Community Development
Tanana Valley Campus
(907) 455-2851
www.tvc.uaf.edu/programs/amt/avt-info.html

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 80).

2. Complete the A.A.S. degree requirements (page 84).

3. Complete the following program (major) requirements:*
   a. AVTY 100—Private Pilot Ground School 4
   AVTY 102—Commercial Ground Instruction 3
   AVTY 155—Preventive Maintenance for Pilots (3)
      or AFPM advisor-approved course(s) (3) 3
   AVTY 200—Instrument Ground School 4
   AVTY 231—Arctic Survival 3
   AVTY 235—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 100—Private Pilot Ground School..4

2. Complete the following core courses:
   AVTY 155—Preventive Maintenance for Pilots..............................3
   AVTY 231—Arctic Survival 3
   AVTY 235—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
   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Process Technology

College of Rural and Community Development
Tanana Valley Campus
(907) 455-2868
www.tvc.uaf.edu/programs/protech-info.html

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 80).

2. Complete the A.A.S. degree requirements (page 84).

3. Demonstrate competence in computer technology skills (through the Process Technology program assessment) or complete one of the following:*
   DRT 110—Computer Literacy for Technology (3)
   or CIOS 150—Computer Business Applications (3)
   or a program advisor-approved computer
   applications course (3) 3

4. Complete the following program major requirements*:
   PHYS 115X—Physical Science I (4)
   and PHYS 116X—Physical Science II (4)
   or 8 credits of program advisor-approved natural
   science courses..8
   PRT 101—Introduction to Process Technology 3
   PRT 110—Introduction to Occupational Safety, Health
   and Environmental Awareness...3
   PRT 130—Process Technology I: Equipment.................................4
   PRT 140—Industrial Process Instrumentation I 3
   PRT 144—Industrial Process Instrumentation II 3
   PRT 230—Process Technology II: Systems....................................4
   PRT 231—Process Technology III: Operations 4
   PRT 250—Process Technology Troubleshooting............................3
   PRT 255—Process Technology Quality 1
   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.*

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Renewable Resources

College of Rural and Community Development
Rural and Economic Development Division
Fairbanks Campus (907) 474-6433
Bristol Bay Campus (800) 478-5109 or (907) 842-5109
Chukchi Campus (907) 442-3400
Interior-Aleutians Campus (907) 474-6433
Kuskokwim Campus (907) 543-4582
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 80).

2. Complete the A.A.S. degree requirements (page 84. As part of the A.A.S. degree requirements, complete MATH 103X or MATH 107X, CHEM 103X or CHEM 105X.)

3. Complete the following program (major) requirements:*
   a. Complete the following:
   ECON 235—Introduction to Natural Resource Economics 3
   NRM 101—Natural Resources Conservation and Policy 3
   NRM 204—Public Lands Law and Policy 3
   RD 255—Rural Alaska Land Issues.. 3
   RD 280—Resource Management Research Techniques 3
   b. Complete one course from each of the following groups:

   Group 1
   BIOL 104—Natural History of Alaska.. 3
   BIOL 104X—Natural History of Alaska 4
   BIOL 105X—Fundamentals of Biology I.. 4

   Group 2
   GEOG 205—Elements of Physical Geography 3
   GEOG 205X—Elements of Physical Geography............................. 4
   GEOS 100X—Introduction to Earth Science 4
   NRM 380W—Soils and the Environment 3

   Group 3
   NRM 102—Practicum in Natural Resources Management 1–2
   WLF 304—Wildlife Internships.. 1–3
   c. Complete the following:
   CIOS 100—Introduction to Personal Computers (1)
       and CIOS 111—Computer Software for Beginners (2)
       or CIOS 150—Computer Business Applications (3) 3
   FISH 101—Introduction to Fisheries (3)
       and WLF 101—Survey of Wildlife Science (1)
       or ABUS 223—Real Estate Law (3)
       and RD 256—Co-Management of Renewable Resources (3)
       or BIOL 271—Principles of Ecology (4)
       and WLF 201—Wildlife Management Principles (3) 4–7
   d. Complete 9-14 credits from the following courses:
   ANS 310—The Alaska Native Lands Settlement.............................. 3
   ANTH 242—Native Cultures of Alaska 3
   BIOL 106X—Fundamentals of Biology II 4
   BIOL 150—Introduction to Marine Biology 3
   BIOL 239—Introduction to Plant Biology..................................... 4
   BIOL 271—Principles of Ecology.. 4
   CE 112—Elementary Surveying... 3
   EMS 152—Emergency Trauma Training First Responder............... 3
   ENGL 314W,O/2—Technical Writing 3
   FISH 101—Introduction to Fisheries... 3
   MIN 101—Minerals, Man and the Environment 3
   NRM 251—Silvics and Dendrology 4
   NRM 304O—Perspectives in Natural Resources Management....... 3
   NRM 340—Natural Resources Measurement and Inventory 3
   RD 265—Perspectives on Subsistence in Alaska............................ 3
   RD 492—Rural Development Leadership Seminar 3
   STAT 200—Elementary Probability and Statistics.......................... 3
   WLF 101—Survey of Wildlife Science 1
   WLF 201—Wildlife Management Principles 3
   WLF 303W—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.

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

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) 443-5602
www.iac.uaf.edu/RHS/

Certificate

Minimum Requirements for Certificate: 32 Credits

This one-year program is designed to develop strong and healthy rural Alaska Native individuals, families and communities. It provides 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. It reflects a strong multicultural orientation that validates, incorporates and builds on Native values and principles. Courses are given through 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.

Certificate Program

1. Complete the general university requirements (page 80).

2. Complete the certificate requirements. (See page 82. As part of the certificate requirements, complete RHS 110 and 115 for the human relations requirement. The communication and computation courses must be completed from the certificate requirements.)

3. Complete the following courses:
   RHS 120—Family Systems I*... 2
   RHS 130—Processes of Community Change 2
   RHS 140—Alaska Native Values and Principles............................. 1
   RHS 150—Introduction to Rural Counseling* 2
   RHS 220—Family Systems II* 2
   RHS 250—Rural Counseling II* 2
   RHS 260—Addictions: Intervention and Treatment* 2
   RHS 265—Interpersonal Violence*.. 2
   RHS 275—Introduction to Mental Health Recovery...................... 2
   RHS 285—Case Management*.. 2
   RHS 287—Rural Human Services Practicum 4
   RHS 290—Grief and Healing* 2

4. Minimum credits required 32

   * 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.

   Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Safety, Health and Environmental Awareness Technology

College of Rural and Community Development
Tanana Valley Campus
(907) 455-2868
www.tvc.uaf.edu

Certificate

Minimum Requirements for Certificate: 36 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 Associate Safety Professional Exam when coupled with other requirements as set forth by the Board of Certification. Graduates are sought after by industry partners to fill entry-level positions throughout the state. Positions include, but are not limited to, safety professionals in construction trades, risk management, insurance safety investigators and entry level OSHA positions.

As the process industries expand and automate, the need for qualified safety technicians increases. This need is currently being addressed by the American Society of Safety Engineers. The Tanana Valley Campus and the Process Technology Program are active members of this national organization.

Certificate Program

1. Complete the general university degree requirements (page 80).

2. Complete the certificate requirements (page 82).

3. Complete the following program requirements:
   PRT 101—Introduction to Process Technology 3
   PRT 110—Introduction to Occupational Safety, Health and
       Environmental Awareness... 3
   OSH 108—Injury Prevention and Risk Management 4
   OSH 110—Program Assessment, Development, and Implementation
       4
   OSH 120—Safety Program Management and Recordkeeping......... 2
   OSH 180—Introduction to Industrial Hygiene 4
   OSH 201—Workplace Injury and Incident Evaluations 4
   OSH 250—Hazardous Material Operation 3

4. Minimum credits required 36

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

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 80).
2. Complete the following certificate requirements:
   a. Complete 3 credits from one of the following computation courses:
      ABUS 155—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 170—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 154—Human Relations (3)
      or approved human relations course
      at the 100-level or above (3)..3
3. Complete the following program requirements.
   TM 101—Introduction to Tribal Management................................3
   TM 105—Introduction to Tribal Finance Applications 3
   TM 199—Tribal Management Practicum I......................................3
4. Complete 12 credits from any of the following categories:

Environmental and Natural Resources
BIOL 104—Natural History of Alaska..3
FISH 101—Introduction to Fisheries..3
NRM 101—Natural Resources Conservation and Policy...............3
Advisor approved environmental technology elective 3

Health and Social/Human Services
HLTH 105—Introduction to Health Careers...................................2
HUMS 105—Personal Awareness and Growth................................3
HUMS 120—Cultural Diversity in Human Services 3
PSY 101—Introduction to Psychology...3

Education and Employment
ED 102—Orientation to Alaska Native Education.........................2

Public Administration and Policy
ABUS 150—Time Management...1
ABUS 179—Fundamentals of Supervision.....................................3
HIST 110—History of Alaska Natives...3

Tribal Business
ABUS 135—Recordkeeping for Business..3
ABUS 151—Village Based Entrepreneurship..............................1-3
ABUS 158—Introduction to Tourism...1-3
BA 151—Introduction to Business...3

Economics
ECON 100X—Political Economy 3
ECON 111—Economics of Rural Alaska 3

Tribal Planning
RD 250—Grant Writing for Community Development..................3
Advisor-approved electives...6

5. Minimum credits required...30

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

Major—A.A.S. Degree

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements (page 84).

3. Complete the following program (major) requirements:*
    TM 101—Introduction to Tribal Management...............................3
    TM 105—Introduction to Tribal Finance Applications 3
    TM 199—Tribal Management Practicum I.....................................3
    TM 201—Advanced Tribal Management 3
    TM 205—Advanced Tribal Finance Applications 3
    TM 299—Tribal Management Practicum II 3

4. Complete 18 credits from any of the following categories:*

    Environmental and Natural Resources
    BIOL 104—Natural History of Alaska..3
    BIOL 271—Principles of Ecology...4
    FISH 101—Introduction to Fisheries..3
    NRM 101—Natural Resources Conservation and Policy................3
    NRM 204—Public Lands Law and Policy 3
    RD 255—Rural Alaska Land Issues...3
    WLF 201—Wildlife Management Principles 3
    Advisor-approved environmental technology elective 3

    Health and Social/Human Services
    HLTH 105—Introduction to Health Careers....................................2
    HUMS 105—Personal Awareness and Growth................................3
    HUMS 120—Cultural Diversity in Human Services 3
    PSY 101—Introduction to Psychology..3

    Education and Employment
    ED 102—Orientation to Alaska Native Education.........................2

    Public Administration and Policy
    ABUS 150—Time Management...1
    ABUS 179—Fundamentals of Supervision......................................3
    ABUS 231—Introduction to Personnel 3
    ABUS 232—Contemporary Management Issues.............................3
    AKNP 230—Federal Indian Law...3
    HIST 110—History of Alaska Natives...3
    RD 200—Community Development in the North 3
    RD 250—Grant Writing for Community Development...............1-3

    Tribal Business
    ABUS 135—Recordkeeping for Business...3
    ABUS 151—Village Based Entrepreneurship...............................1-3
    ABUS 158—Introduction to Tourism..1-3
    ABUS 264—Filing/Records Management.......................................3
    BA 151—Introduction to Business..3

    Economics
    ECON 100X—Political Economy 3
    ECON 111—Economics of Rural Alaska 3

    Tribal Planning
    RD 250—Grant Writing for Community Development..................3
    Advisor-approved electives...6

5. Complete credits in 100-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.

    *Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be
    viewed online at www.uaf.edu/catalog/.*

Welding and Materials Technology

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

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 follow courses are part of the welding and materials technology program:

WMT 101—Introduction to Welding...3
WMT 102—Intermediate Welding...3
WMT 103—Welding I...3
WMT 105—Welding II..3
WMT 106—Heat Treating/Metal Finishing/Knife Making I............3
WMT 117—Oxy-Acetylene Welding and Cutting 3
WMT 130—Shielded Metal Arc Welding (SMAW) 1–3
WMT 150—Gas Tungsten Arc Welding (GTAW) 1–3
WMT 160—Gas Metal Arc Weld Alum (GMAW) 1–3
WMT 170—Military Training Welding I.......................................3
WMT 206—Heat Treating/Metal Finishing/Knife Making II 3
WMT 210—Uphill Pipe Welding...3
WMT 241—Gas Tungsten Arc and Gas Metal Arc Welding............3
WMT 270—Military Training Welding II 3
WMT 280—Military Training Welding III 3
WMT 290—Welding Proficiency Maintenance..............................3

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

UNIVERSITY OF ALASKA FAIRBANKS
Office of Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu
UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/titleIXcompliance/nondiscrimination.

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 80).

2. Complete the certificate requirements. (See page 82. 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 208—Yup'ik Composition...3
       ESK 130—Beginning Yup'ik Grammar..3
       ESK 240—Introduction to Reading Yup'ik....................................3
    b. Complete one of the following sequences:
       ESK 121—Elementary Central Yup'ik Apprenticeship I 4
       ESK 122—Elementary Central Yup'ik Apprenticeship II 4
       ESK 123—Elementary Central Yup'ik Apprenticeship III...............4
          or
       ESK 103—Conversational Central Yup'ik 3
       ESK 104—Conversational Central Yup'ik 3
       ESK 203—Intermediate Central Yup'ik...3
       ESK 204—Intermediate Central Yup'ik...3
    c. Complete one of the following sequences:
       ESK 221—Intermediate Central Yup'ik Apprenticeship I 3
       ESK 222—Intermediate Central Yup'ik Apprenticeship II..............3
       ESK 223—Intermediate Central Yup'ik Apprenticeship III.............3
          or
       ESK 205—Regaining Fluency in Yup'ik 3
       ESK 206—Regaining Fluency in Yup'ik 3
       ESK 223—Intermediate Central Yup'ik Apprenticeship III.............3
    4. Minimum credits required...30

Major—A.A.S. Degree

1. Complete the general university requirements (page 80).

2. Complete the A.A.S. degree requirements (page 84).

3. Complete the following program (major) requirements:*
    a. Complete the following:
       ESK 208—Yup'ik Composition 3
       ESK 130—Beginning Yup'ik Grammar..3
       ESK 240—Introduction to Reading Yup'ik....................................3
    b. Complete one of the following sequences:
       ESK 121—Elementary Central Yup'ik Apprenticeship I 4
       ESK 122—Elementary Central Yup'ik Apprenticeship II 4
       ESK 123—Elementary Central Yup'ik Apprenticeship III...............4
          or
       ESK 103—Conversational Central Yup'ik 3
       ESK 104—Conversational Central Yup'ik 3
       ESK 203—Intermediate Central Yup'ik...3
       ESK 204—Intermediate Central Yup'ik...3
    c. Complete one of the following sequences:
       ESK 221—Intermediate Central Yup'ik Apprenticeship I 3
       ESK 222—Intermediate Central Yup'ik Apprenticeship II..............3
       ESK 223—Intermediate Central Yup'ik Apprenticeship III.............3
          or
       ESK 205—Regaining Fluency in Yup'ik 3
       ESK 206—Regaining Fluency in Yup'ik 3
       ESK 223—Intermediate Central Yup'ik Apprenticeship III.............3

4. Minimum credits required...60

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

    Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.