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 employers 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 83).
2. Complete the certificate requirements. (See page 85. 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 TCH 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

Major—A.A.S. Degree

1. Complete the general university requirements (page 83).
2. Complete the A.A.S. degree requirements (See page 87. 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 (2.5)
   CTT 299—Student Practicum II ....................................................... 1.5
5. Minimum credits required .............................................................. 75

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