The drafting technology programs combine focused training in computer-aided drafting with a well-rounded exposure to the professions, trades and materials common to construction in Alaska. Courses combine technical CAD training with the vocabulary and knowledge needed to communicate with future employers in the architectural, engineering and construction fields. Students develop skills in mathematics, drawing and multifunctional CAD techniques. Students are instructed in traditional drawing techniques, CAD, and building information modeling technologies, giving them the knowledge and flexibility to work traditionally and with the most recent drafting technologies. Required courses cover many aspects of design and construction, including building materials, codes, and civil, mechanical, electrical and structural technologies. Qualified students have the opportunity to work side-by-side with professionals from the architectural and engineering community in internships, gaining valuable on-the-job experience.

Students entering the certificate program are expected to have computer skills equivalent to CIOS F150.

**Certificate Program**

1. Complete the general university requirements (page 109).
2. Complete the certificate requirements (page 109).
3. Complete the following certificate requirements:
   - DRT F101—Introduction to Drafting……………………………………3
   - DRT F121—Construction Documents and Drawings……………………3
   - DRT F170—Beginning CAD………………………………………………3
   - DRT F210—Intermediate CAD…………………………………………3
   - DRT F270—Advanced CAD………………………………………………3
4. Complete one of the following concentrations:
   a. **Architectural Drafting**
      - CM F102—Methods of Building Construction …………………………3
      - CM F123—Codes and Standards ………………………………………….3
      - DRT F140—Architectural Drafting ……………………………………3
   b. **Civil Drafting**
      - CM F102—Methods of Building Construction …………………………3
      - CM F213—Civil Technology ………………………………………………4
      - DRT F150—Civil Drafting …………………………………………………3
5. Complete 3-6 credits from the following electives:
   - DRT F121—Construction Documents and Drawings ……………………3
   - DRT F260—Drafting Internship ……………………………………………3
   - CM F201—Construction Project Management ………………………3
   - ES F101—Introduction to Engineering** ………………………………..3
5. Minimum credits required …………………………………………………3-63
   * Students must earn a C grade or better in each course.
   ** This elective requires additional math prerequisites.
Certificate Requirements

Communication .............................................. 2-3 Credits

Complete one of the following:
- ENGL F111X—Introduction to Academic Writing.................. (3)
- ABUS F155—Business Math....................................... (3)
- ABUS F154—Human Relations .................................... (3)
- ANT H F100X/SOC F100X—Individual, Society and Culture (s) ..................(3)
- ECE F104—Child Development: Prenatal, Infants and Toddlers (s) ....... (3)
- ECE F107—Child Development II: Preschool and Primary Years (s) ....(3)
- HLTH F106—Human Behavior in Health Care (s) .................(3)
- HUMS F120—Cultural Diversity in Human Services...............(3)
- HUMS F110—Cross-Cultural Bridging Skills (1) AND
  HUMS F115—Issues of Personal Development .....................(2)
- ANL F287—Teaching Methods for Alaska Native Languages (h) ..... (3)
- ED/PSY F245—Child Development (s)...........................(3)
- ECE F104—Child Development: Prenatal, Infants and Toddlers (s) ....... (3)
- ECE F107—Child Development II: Preschool and Primary Years (s) ....(3)
- HLTH F106—Human Behavior in Health Care (s) .................(3)
- HUMS F120—Cultural Diversity in Human Services...............(3)
- HUMS F110—Cross-Cultural Bridging Skills (1) AND
  HUMS F115—Issues of Personal Development .....................(2)
- Other program-approved discipline-based human relations or
discipline-based courses with embedded human relations content........ (2-3)

Major specialty .............................................. at least 21 Credits

Electives to total ............................................. at least 30 Credits

Associate of Applied Science Requirements

Written Communication ...................................... 6 Credits

Complete one of the following:
- ENGL F111X—Introduction to Academic Writing.................. (3)
- ABUS F155—Business Math....................................... (3)
- ABUS F154—Human Relations .................................... (3)
- ANT H F100X/SOC F100X—Individual, Society and Culture (s) ..................(3)
- ECE F104—Child Development: Prenatal, Infants and Toddlers (s) ....... (3)
- ECE F107—Child Development II: Preschool and Primary Years (s) ....(3)
- HLTH F106—Human Behavior in Health Care (s) .................(3)
- HUMS F120—Cultural Diversity in Human Services...............(3)
- HUMS F110—Cross-Cultural Bridging Skills (1) AND
  HUMS F115—Issues of Personal Development .....................(2)
- Other program-approved discipline-based human relations or
discipline-based courses with embedded human relations content........ (2-3)

Major specialty .............................................. at least 30 Credits

Electives to total ............................................. at least 30 Credits

Minimum credits required for degree .................................. 60 Credits