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 91).
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
   - ES F101—Introduction to Engineering** ........................................ 3
   - CM F201—Construction Project Management ................................... 3

5. Minimum credits required ....................................................... 33-34

Note: DRT F260 Drafting Internship may be substituted for concentration-specific DRT courses with program approval.

**Major – A.A.S. Degree**

1. Complete the general university requirements (page 110).
2. Complete the A.A.S. degree requirements (page 110).
3. Complete the following program (major) requirements:*
   - DRT F101—Introduction to Drafting ............................................. 3
   - DRT F140—Architectural Drafting ................................................. 3
   - DRT F150—Civil Drafting .............................................................. 3
   - DRT F170—Beginning CAD ............................................................ 3
   - DRT F210—Intermediate CAD ........................................................ 3
   - DRT F270—Advanced CAD ............................................................. 3
   - DRT F155—Mechanical and Electrical Drafting .............................. 3
   - CM F102—Means and Methods of Building Construction ................. 3
   - CM F123—Codes and Standards ..................................................... 3
   - CM F142—Mechanical and Electrical Technology ......................... 4
   - CM F213—Civil Technology ........................................................... 4
   - CM F231—Structural Technology ..................................................... 4
   - CM F142—Mechanical and Electrical Technology ......................... 4
   - CM F213—Civil Technology ........................................................... 4
   - CM F231—Structural Technology ..................................................... 4
4. Complete 3-6 credits from the following electives:
   - DRT F121—Construction Documents and Drawings ....................... 3
   - DRT F260—Drafting Internship ....................................................... 3
   - ES F101—Introduction to Engineering** ........................................ 3

5. Minimum credits required ....................................................... 60-63

* 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)
• ECE F108—Teaching Methods for Alaska Native Languages (h)........................................................................(3)
• ECE F107—Child Development II: Preschool and Primary Years (s)............................................................................(3)
• HUMS F120—Cultural Diversity in Human Services.............(3)
• RHF F110—Cross-Cultural Bridging Skills (1) AND RHF F115—Issues of Personal Development .............................(2)
• Other program-approved discipline-based human relations or discipline-based courses with embedded human relations content. (2-3)

Human Relations ............................... 2-3 Credits
Complete one of the following:
• ANTH F100X/SOC F100X—Individual, Society and Culture (s).............................(3)
• ABUS F154—Human Relations ............................................(3)
• ANL F287—Teaching Methods for Alaska Native Languages (h)........................................................................(3)
• ECE F104—Child Development: Prenatal, Infants and Toddlers (s)............................................................................(3)
• ECE F107—Child Development II: Preschool and Primary Years (s)............................................................................(3)
• HUMS F120—Cultural Diversity in Human Services.............(3)
• RHF F110—Cross-Cultural Bridging Skills (1) AND RHF 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 ........................................................................30 Credits

Associate of Applied Science Requirements

Written Communication ........................... 6 Credits
• ENGL F111X—Introduction to Academic Writing.................(3)
Complete one of the following:
• ABUS F155—Business Math.............................................(3)
• ABUS F154—Human Relations ............................................(3)
• ANL F287—Teaching Methods for Alaska Native Languages (h)........................................................................(3)
• ECE F104—Child Development: Prenatal, Infants and Toddlers (s)............................................................................(3)
• ECE F107—Child Development II: Preschool and Primary Years (s)............................................................................(3)
• HUMS F120—Cultural Diversity in Human Services.............(3)
• RHF F110—Cross-Cultural Bridging Skills (1) AND RHF F115—Issues of Personal Development .............................(2)
• Other program-approved discipline-based human relations course or discipline-based course with embedded human relations content. (3)

Oral Communication ............................. 3 Credits
Complete one of the following:
• COMM F121X—Introduction to Interpersonal Communication ....(3)
• COMM F131X—Fundamentals of Oral Communication: Group Context ....(3)
• COMM F141X—Fundamentals of Oral Communication: Public Context ....(3)

Human Relations ............................... 3 Credits
Complete one of the following:
• ANTH F100X/SOC F100X—Individual, Society and Culture (s).............................(3)
• ABUS F154—Human Relations ............................................(3)
• ANL F287—Teaching Methods for Alaska Native Languages (h)........................................................................(3)
• ECE F104—Child Development: Prenatal, Infants and Toddlers (s)............................................................................(3)
• ECE F107—Child Development II: Preschool and Primary Years (s)............................................................................(3)
• HUMS F120—Cultural Diversity in Human Services.............(3)
• RHF F110—Cross-Cultural Bridging Skills (1) AND RHF F115—Issues of Personal Development .............................(2)
• Other program-approved discipline-based human relations course or discipline-based course with embedded human relations content. (3)

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

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