# DRAFTING TECHNOLOGY (DRT)

**Community & Technical College**  
Drafting & Design Technology (https://www.ctc.uaf.edu/programs/drafting-design-technology/)  
907-455-2800

**DRT F101  Introduction to Drafting**  
3 Credits  
Offered As Demand Warrants  
Introduction to basic drafting skills necessary to communicate in the building, construction, design and process technology industries for freshman-level students and for certificate or associate degree-seeking students. Limited manual drafting techniques will be used to gain basic skills and to contrast the speed and accuracy to that of computer-aided drafting (CAD).  
**Lecture + Lab + Other:** 2 + 2 + 0

**DRT F121  Construction Documents and Drawings**  
3 Credits  
Offered As Demand Warrants  
Reading and interpretation of construction documents for residential, light commercial and heavy commercial structures using conventional symbols and representation.  
**Lecture + Lab + Other:** 3 + 0 + 0

**DRT F140  Architectural Drafting**  
3 Credits  
Offered As Demand Warrants  
Architectural drafting principles including site plans, foundations, floor plans, elevations, architectural sections, framing plans, area plans and graphic standards.  
**Lecture + Lab + Other:** 2 + 2 + 0

**DRT F145  Structural Drafting**  
3 Credits  
Offered As Demand Warrants  
Introduces technical skills needed by structural drafters and technicians to work with structural engineers. Includes office practices, staff relationships, and structural drawing production. Develops computer-aided drafting skills in symbols, conventions, dimensioning systems, sheet organizations, code analysis and research methods for steel, wood, and reinforced concrete buildings.  
**Prerequisites:** DRT F170 or permission of program coordinator.  
**Lecture + Lab + Other:** 3 + 0 + 0

**DRT F150  Civil Drafting**  
3 Credits  
Offered As Demand Warrants  
Civil drafting principles including plotting traverse and surveys by bearing and distance, latitudes and departures, topographic drawings and maps, contours and elevations, profiles and highway curves, cross-section drawings and grading plans.  
**Lecture + Lab + Other:** 2 + 2 + 0

**DRT F155  Mechanical and Electrical Drafting**  
3 Credits  
Offered As Demand Warrants  
Introduces technical analysis, theory, code requirements, and CAD techniques to produce construction drawings for mechanical and electrical building systems. Includes drafting conventions, drawing symbols, terminology, and research methods for residential and commercial building systems and equipment.  
**Prerequisites:** DRT F170 or permission of program coordinator.  
**Lecture + Lab + Other:** 3 + 0 + 0

**DRT F170  Beginning CAD**  
3 Credits  
Offered As Demand Warrants  
Instruction in basic working knowledge of CAD software and its applications in drafting. Topics covered include an introduction to CAD software applications, basic CAD skills and tools, through plotting finished drawings. Practical applications.  
**Lecture + Lab + Other:** 2 + 2 + 0

**DRT F210  Intermediate CAD**  
3 Credits  
Offered As Demand Warrants  
Techniques for construction and drafting output using CAD. Emphasis will be on the construction drawings produced for a building project and the software tools used in this process.  
**Prerequisites:** DRT F170 or enrolled as a CE Major or permission of the program coordinator.  
**Lecture + Lab + Other:** 2 + 2 + 0

**DRT F260  Drafting Internship**  
1-6 Credits  
Offered As Demand Warrants  
Supervised work experience in process organizations. Assignments will be individually arranged with cooperating organizations from the private and public sectors. A maximum of 6 credits may be earned.  
**Prerequisites:** Permission of program coordinator.  
**Lecture + Lab + Other:** 0 + 3-18 + 0

**DRT F270  Advanced CAD**  
3 Credits  
Offered As Demand Warrants  
Advanced areas of CAD (3-D, menu modifications and Auto lisp).  
**Prerequisites:** DRT F170; DRT F210; or permission of program coordinator.  
**Lecture + Lab + Other:** 2 + 2 + 0