DRAFTING TECHNOLOGY

College of Rural and Community Development Community and Technical College 907-455-2845

www.ctc.uaf.edu/programs/drafting/

Certificate; AAS Degree

Minimum Requirements for Certificate: 33 – 34 credits; for Degree: 60 - 63 credits

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 multi-functional 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

- Complete the general university requirements (page 95).
- Complete the certificate requirements (page 97).

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 Construction3 CM F123—Codes and Standards......3 DPT F140 Architectural Drafting b.

DKI 1140—Architectural Draiting	
Civil Drafting	
CM F102—Methods of Building Construction	3
CM F213—Civil Technology	4
DRT F150—Civil Drafting	3

c. Information Technology	
CITS F203—Information Technology Support	
Fundamentals	4
CITS F204—Introduction to Network Support and	
Administration	3
CITS F261—Computer and Network Security	3
d. Mechanical and Electrical Drafting	
CM F102—Methods of Building Construction	3
CM F142—Mechanical and Electrical Technology	
DRT F155—Mechanical and Electrical Drafting	
e. Process Technology	
PRT F101—Introduction to Process Technology	3
PRT F110—Introduction to Occupational Safety, Health and	
Environmental Awareness	3
PRT F117—Drafting for Technicians	
f. Structural Drafting	
CM F102—Methods of Building Construction	3
CM F231—Structural Technology	
DRT F145—Structural Drafting	
e	
 Minimum credits required	
Major - AAS Degree	
1. Complete the general university requirements (page 95).	

- 2. Complete the AAS degree requirements (page 99).

Complete the following program (major) requirements:*	
DRT F101—Introduction to Drafting	3
DRT F140—Architectural Drafting	3
DRT F270—Advanced CAD	3
DRT F145—Structural Drafting	3
CM F102—Means and Methods of Building Construction	3
CM F123—Codes and Standards	3
CM F213—Civil Technology	4
Complete 3 6 credits from the following electives:	
	3
	DRT F101—Introduction to Drafting

- DRT F260—Drafting Internship....... 3 6 CM F201—Construction Project Management......3 ES F101—Introduction to Engineering**......3
- Minimum credits required60 63 Students must earn a Ĉ- grade or better in each course
- This elective requires additional math prerequisites.



Certificate Requirements

Communication		
Complete one of the following: • ENGL F111X—Introduction to Academic Writing		
Computation2 – 3 Credits		
Complete one of the following: • Any course at the F100-level or above in mathematical sciences (computer science, math or statistics)		
Human Relations 2 – 3 Credits		
Complete one of the following: • ANTH F100X/SOC F100X—Individual, Society and Culture(s)		
Electives to total		

Associate of Applied Science Requirements

• •	ritten Communication
•	ENGL F111X—Introduction to Academic Writing(3)
•	omplete one of the following: ABUS F271—Business Communications
O	ral Communication
•	omplete one of the following: COMM F131X—Fundamentals of Oral Communication: Group Context(3) COMM F141X—Fundamentals of Oral Communication: Public Context(3) or successful completion of competency test
C	omputation3 Credits
•	Implete one of the following: Any course at the F100-level or above in mathematical sciences (computer science, math or statistics)
H	uman Relations
•	omplete one of the following: ANTH F100X/SOC F100X—Individual, Society and Culture (s)
	ajor specialty at least
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