DRAFTING TECHNOLOGY

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

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

Certificate; A.A.S. 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 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	
	DRT F170—Beginning CAD	3
	DRT F210—Intermediate CAD	
	DRT F270—Advanced CAD	

- 4. Complete one of the following concentrations:
- a. Architectural Drafting

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ds3	CM F123—Codes and Standar
fting3	DRT F140—Architectural Dra

b. Civil Drafting

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CM F102—Methods of Building Construction	3
CM F213—Civil Technology	
DRT F150—Civil Drafting	

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	3
f. Structural Drafting	
CM F102—Methods of Building Construction	3
CM F231—Structural Technology	
DRT F145—Structural Drafting	3
5. Minimum credits required	33-34 pecific

Major - A.A.S. Degree

- 1. Complete the general university requirements (page 110).
- 2. Complete the A.A.S. degree requirements (page 110).

١.	Complete the following program (major) requirements:*	
	DRT F101—Introduction to Drafting	3
	DRT F140—Architectural Drafting	3
	DRT F150—Civil Drafting	
	DRT F170—Beginning CAD	
	DRT F210—Intermediate CAD	
	DRT F270—Advanced CAD	
	DRT F145—Structural Drafting	
	DRT F155—Mechanical and Electrical Drafting	
	CM F102—Means and Methods of Building Construction	
	CM F123—Codes and Standards	
	CM F142—Mechanical and Electrical Technology	
	CM F213—Civil Technology	
	CM F231—Structural Technology	
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	Complete 3-6 credits from the following electives:	
	DRT F121—Construction Documents and Drawings	
	DRT F260—Drafting Internship	3-6

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





Certificate Requirements

Communication 2-3 Credits
Complete one of the following: • ENGL F111X—Introduction to Academic Writing
Computation
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)
Major specialtyat least 21 Credits
Electives to total

Associate of Applied Science Requirements

	. 6 Credits
ENGL F111X—Introduction to Academic Writing	(3)
Complete one of the following: ABUS F271—Business Communications	(3) (3) Sciences(3)
Oral Communication	. 3 Credits
Complete one of the following: COMM F121X—Introduction to Interpersonal Communication COMM F131X—Fundamentals of Oral Communication: Group COMM F141X—Fundamentals of Oral Communication: Public or successful completion of competency test	(3) Context(3)
Computation	. 3 Credits
Complete one of the following: Any course at the F100 level or above in mathematical sciences (computer science, math or statistics	(3)(3)(3)(3)(3)(3)(3)
Human Relations	. 3 Credits
Complete one of the following: ANTH F100X/SOC F100X—Individual, Society and Culture (s)	(3)
 ABUS F154—Human Relations ANL F287—Teaching Methods for Alaska Native Languages (h) ECE F104—Child Development: Prenatal, Infants and Toddlers ECE F107—Child Development II: Preschool and Primary Years ED/PSY F245—Childhood Development (s) HLTH F106—Human Behavior in Health Care (s) HUMS F120—Cultural Diversity in Human Services RHS F110—Cross-Cultural Bridging Skills (1) AND RHS F115—Issues of Personal Development Other program-approved discipline-based human relations cour 	(3)(3)(3)(3)(3)(3)(2)
ABUS F154—Human Relations	(3) (3) (3) (3) (3) (3) (3) (3) (3) (2) (2) (2) (3) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7

Minimum credits required for degree60 Credits

