






Pathway: Skilled Trades & Technical Sciences

Plan of Study: Computer Aided Drafting and Design

Program: Computer Aided Drafting and Design

Career Goal (O*Net Code): [CIP 15.1302 to SOC Crosswalk](#); [O*Net Search for Careers Related to Computer Aided Drafting & Design](#). (Click below to access education, skills, and employment outlook information)

- | | |
|---|--|
| 17-3012.01 Electronic Drafters | 17-1021.00 Cartographers and Photogrammetrists |
| 17-3011.01 Architectural Drafters  | 17-3031.02 Mapping Technicians |
| 17-3013.00 Mechanical Drafters | 17-3023.01 Electronics Engineering Technicians  |
| 17-3012.02 Electrical Drafters | 51-4012.00 Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic  |
| 17-3011.02 Civil Drafters | 51-7031.00 Model Makers, Wood |
| 17-3019.00 Drafters, All Other | 51-6092.00 Fabric and Apparel Patternmakers |
| 17-3011.00 Architectural and Civil Drafters | |
| 17-3012.00 Electrical and Electronics Drafters | |

 - Bright Outlook  - Green

Relevant Occupational Experience

(Your Life Experiences may be worth College Credit!):



CCCS Credit for Prior Learning Guide

FRCC Credit for Prior Learning

- [FRCC Standards for Awarding Policies and Procedures](#)
- [Transferability](#)

LMI Gateway Link to Related Occupations

Possible Pathways to your Career!

	Programs Available  	Program Length (*Based on meeting Program Entrance Requirements)	Estimated Tuition (*Based on Resident Tuition after COF)	Possible Career Options	Salary Range
Certificate Option(s)	Advanced Architectural CAD Certificate	24 credit hours	\$2,997.60	Architectural or Civil Drafters, Electrical and Electronic Drafters, Mechanical Drafters, Cartographers and Photogrammetrists, Mapping Technicians, Electronics Engineering Technicians, Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic, Model Makers, Wood Fabric and Apparel Patternmakers	\$ - \$\$\$
	Advanced Mechanical CAD Certificate	24 credit hours	\$2,997.60		
	Animation & Visualization CAD Certificate	27 credit hours	\$3,372.30		
	Basic CAD Certificate	18 credit hours	\$2,248.20		
	Basic Mechanical CAD Certificate	24 credit hours	\$2,997.60		
	Civil CAD Certificate	24 credit hours	\$2,997.60		
	Landscape CAD Technician Certificate	30 credit hours	\$3,747.00		
Associate Degree(s)	Computer Aided Drafting & Design Degree (A.A.S)	61 credit hours	\$7,618.90		\$ - \$\$\$

Articulation Opportunities to Advanced Degrees:

Advanced Degree(s)	Articulation Agreement with the Art Institute of Colorado	The Art Institute of Colorado – Gainful Employment	For more information about colleges that have these programs go to www.CollegeinColorado.org	\$\$\$-\$\$\$\$
	Associate's to Bachelor's® Program at Regis University College for Professional Studies (CPS)	Regis Tuition Information		
	Graduate degrees in fields like Engineering, Design, Architecture and Landscaping (Associate Degree + 60 for BA/BS Degree & Bachelor's Degree + 2-4 years in Graduate School for MA)	Colorado Tuition Information		
	College Tuition Comparison Guide			

* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

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Extended Learning Experiences

Student Services & Support Structures:

- [Academic Advising](#)
- [Academic Support Labs](#)
- [Admissions and Records](#)
- [Bookstores](#)
- [Career Counseling](#)
- [Crisis Counseling & Stress Management Services](#)
- [Disability Services](#)
- [English as a Second Language](#)
- [General Education Development \(GED\)](#)
- [Tutoring](#)
- [Libraries](#)
- [Student Email](#)
- [Student Employment Services](#)
- [Student Life](#)
- [Testing Center Services](#)
- [Veteran Services](#)

Financial Aid:

- [FAFSA](#)
- [Grants](#)
- [Work Study](#)
- [Loans](#)
- [Scholarships](#)

Professional Affiliations

- [American Design and Drafting Association](#)
- [AutoDesk University Group International](#)
- [Association for Computer Aided Design In Architecture](#)
- [ACM SIGGRAPH](#)
- [Building SMART alliance](#)
- [The CAD Compass](#)
- [The CAD Society](#)
- [SME](#)

Practical Learning Experiences:

- [Internships](#)
- [Career Preparation](#)
- [Service Learning/Volunteering](#)
- [Student Experiences](#)

Front Range Community College is accredited by the Higher Learning Commission and a member of the North Central Association of Colleges and Schools.

Front Range Community College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. Please direct inquiries to: Human Resources, 3645 West 112th Avenue, Westminster, CO 80031. (303) 404 - 5307

Physical & Sensory Requirements, Computer Aided Drafting & Design

Key: N = Never O = Occasional: 1 – 33% of time F = Frequent: 34 – 75% of time C = Constant: 76 – 100% of time

PHYSICAL CAPABILITIES								SENSORY CAPABILITIES									
Activity		Frequency				Activity		Frequency				Activity		Frequency			
		N	O	F	C			N	O	F	C			N	O	F	C
Lift/Carry						Push/Pull						Walk					
10 lbs or less						15 lbs or less						Sit					
11-20 lbs						16-30 lbs						Stand					
21-50 lbs						31-50 lbs						Fine motor manipulations					
51-100 lbs						51-100 lbs						Gripping					
100+ lbs												Squat/Kneel					
												Bend					
Drive						Computer						Twist/Turn					
Manual						Data Entry						Crawl					
Automatic						Use of mouse						Climb					
												Reach above chest					
												Reach outward					

For more information on the Physical & Sensory Requirements for this Pathway, please contact:

Disability Support Services

- [Boulder Campus:](#) (303) 678 - 3922
- [Larimer Campus:](#) (970) 204 - 8112
- [Westminster Campus & Brighton Center:](#) (303) 404 - 5676

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