Construction Technology: CAD Assistant

Career Pathways Certificate

Major Code: 151305

About the Program

The Computer Aided Drafting (CAD) Assistant Career Pathways certificate focuses on the skills needed for an entry-level job in a CAD environment in a variety of disciplines including architecture, construction or engineering. This certificate places an emphasis on preparing students to recognize and adopt evolving methods and materials, including high technology, used in this industry. Typical occupational titles would include CAD drafter or designer (Levels I or II). The credits in this certificate can be applied toward completion of the one-year certificate in Architectural CAD or Construction Technology.

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. For a list of learning outcomes for this discipline or program, see www.roguecc.edu/Programs/LearningOutcomes.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores. Students are also required to complete any prerequisites listed. In addition, students may also be required to enroll in classes that would increase their employability and success (see prerequisites).

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Construction Technology Department chair's recommendation. In order to ensure coursework is current, program courses over five years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. College Now credits will be accepted in accordance with current agreements.

A Career Pathway is a series of connected education and training programs and student support services that enable individuals to secure a job or advance in a demand industry or occupation. Career Pathways focus on easing and facilitating student transition from high school to community college, from pre-college courses to credit post-secondary programs, and from community college to university or employment. Students decide how far they want to go.

Credits earned in the successful completion of this program can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor and review the roadmapbelow and at www.roguecc.edu/Programs/CareerPathways.

Construction Technology: Concrete Laborer Career Pathways Certificate (20-23 credits)

- Brick masons, block masons, stone masons, and tile and marble setters helpers ($14/hr.) [1]
- Cement masons and concrete finishers ($15/hr.) [1]

Construction Technology: Construction Helper Career Pathways Certificate (26-27 credits)

- Carpenter's helper ($13/hr.) [1]
- Construction laborer and trades' helper ($14/hr.)[1]

Construction Technology: CAD Assistant Career Pathways Certificate (28-29 credits)

- Entry-level surveying and mapping technician ($12/hr.) [1]
- Entry-level drafter (electrical and electronics; architectural and civil; and mechanical drafters) ($13/hr.) [1]

Construction Technology Certificate of Completion (47-51 credits)

- Carpenter ($20/hr.) [1]
- Construction and related workers ($19/hr.) [1]
- Entry-level civil engineering technician ($19/hr.) [1]

Architectural Computer Aided Drafting Certificate of Completion (56-57 credits)

- Drafter (electrical and electronics; architectural and civil; and mechanical drafters) ($16/hr.) [1]
- Entry-level surveying and mapping technician ($15/hr.) [1]
- Entry-level civil engineering technician ($19/hr.) [1]

[1] Median wages from OLMIS (www.qualityinfo.org) April 2012

Completion Requirements

Students must complete all credits in this program with a "C" or better to receive their pathways certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
—	Approved 3-4 credit computer science class, CS120 or above (or documented computer proficiency) [1]	0-4
CT97	Construction Industry Orientation [2] and	3
	CT98 Construction Tools [2] or	3
CT90	Build Your Tomorrow: A Complete Guide to Success in the Construction Industry [2] and	(3)
	CT91 Hands On: A Constructive Approach to Your Next Career [2]	(6)
MTH20	Pre-algebra (or designated placement test score as shown on current indicator chart)	4
RD30	College Reading II (or designated placement test score as shown on current indicator chart)	4
WR30	Fundamentals of Composition II (or designated placement test score as shown on current indicator chart)	4

Recommended Courses

Course No.	Course Title	Credits
ART115	Basic Design I (Composition)	3
BA109	Ready, Set, Work: Techniques for Landing a Job	2

Required Courses

Course No.	Course Title	Credits
First Term		
BT101	Human Relations in Organizations or	
	PSY101 Psychology of Human Relations	3
CT101	Construction Carpentry I or	
	CT102 Construction Carpentry II or	
	CT103 Construction Carpentry III	4
CT104	Construction Blueprint Reading I	3
CT111	Computer Aided Drafting: Architectural	3
WR115	Introduction to Expository Writing or	
	BT113 Business English I or higher level composition [3]	3-4
		16-17

(over)

Second Term

CT140	Issues in the Construction Environment or	
	CT141 Oregon Residential Structural Specialty Code	3
CT180	Cooperative Work Experience/Construction	2
CT211	Computer Aided Drafting II: Architectural	3
MTH60	Fundamentals of Algebra I or	
	MTH63 Applied Technical Math or higher level math	4
		12
TOTAL PROGRAM CREDITS		**28-29**

[1] Successful completion of CS101 or CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement.

[2] These courses prepare students with little construction experience in the areas of safety, tool use and work readiness. Prerequisites may be waived upon assessment by the department chair. Assessment criteria includes work and experience history, demonstrable competencies, and/or College Now credit.

[3] Students who have successfully completed the 3-credit version of BT113 will have met this requirement.

For more information contact the Construction Technology Department:

Grants Pass or Medford 541-245-7907
Toll free in Oregon . . . . . .800-411-6508, Ext. 7907
email . . . . . rhenderson@roguecc.edu
TTY . . . . . Oregon Telecom Relay Service, 711

This advising guide is for advising purposes only. Please see current college catalog for additional information on specific college policies and graduation requirements.

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