

# Construction Technology

## Certificate of Completion

2009-10 Academic Year

Major Code: 151001A

### About the Program

The Construction Technology one-year certificate is designed for students seeking entry-level positions in skilled trades, office or field positions, or seeking to improve their existing skills in order to advance in the construction industry. This program places an emphasis on preparing students to assess and adapt to evolving methods and materials, including high technology, used in this industry. Typical occupational titles would include carpenter, crew leader, field technician, and coordinator.

### 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 Construction Technology prerequisites).

### Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Construction Technology Department coordinator's recommendation. In order to ensure coursework is current, program courses over five years old must be reviewed and approved by the appropriate department head before being accepted toward core requirements. High school "2+2" Early College Credit will be accepted in accordance with current agreements.

### Graduation Requirements

Students must complete all credits in this program with a "C" or better to receive their 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.

### Construction Technology Prerequisites

Course No.	Course Title	Credits
—	Approved 3-4 credit computer science class, CS120 or above (or documented computer proficiency) <sup>1</sup>	0-4
CT97	Construction Industry Orientation <sup>2</sup>	3
CT98	Construction Tools <sup>2</sup> or	3
CT90	Build Your Tomorrow: A Complete Guide to Success in the Construction Industry <sup>2</sup> and	3
CT91	Hands-on: A Constructive Approach to Your Next Career <sup>2</sup>	7
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

### Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
CT101	Construction Carpentry I	4
CT104	Construction Blueprint Reading I	3
CT141	Oregon Residential Structural Specialty Code	3
CT198	Construction Project Safety	3
9.167	Emergency First Aid	1
—	Approved program elective	<u>3-4</u>
		17-18
<b>Second Term</b>		
CT102	Construction Carpentry II	4
CT111	Computer Aided Drafting: I: Architectural	3
MTH60	Fundamentals of Algebra I or	
MTH63	Applied Technical Math or higher level math	4

Course No.	Course Title	Credits
—	Approved program elective	<u>3-4</u>
		14-15
<b>Third Term</b>		
BT101	Human Relations in Organizations or	
PSY101	Psychology of Human Relations	3
CT103	Construction Carpentry III	4
CT180	Cooperative Work Experience/Construction (allowed only after minimum safety orientation is completed)	3
WR115	Introduction to Expository Writing or	
BT113	Business English I or higher level composition	3
—	Approved program elective	<u>3-4</u>
		16-17
<b>TOTAL PROGRAM CREDITS</b>		<b>47-50</b>

### Approved Program Electives (9-12 credits required)

Course No.	Course Title	Credits
BA101	Introduction to Business	3
BA109	Ready, Set Work: Techniques for Landing a Job	2
CT101F	Concrete Forming and Finishing	2
CT105	Construction Industry Methods, Materials, and Resources	3
CT106	Elements of Design	3
CT107	Construction Carpentry IV	4
CT115	Geographical Information Systems I	3
CT130	Site Survey I	3
CT140	Issues in the Construction Environment	3
CT142	Building Code Topics	1-3
CT199	Construction Technical Topics	1-5
CT204	Construction Blueprint Reading II	3
CT211	Computer Aided Drafting II: Architectural	3
CT212	Computer Aided Drafting III: Architectural	3
CT215	Geographical Information Systems II	3
CT225	Strength of Materials	3
CT241	Oregon Structural Specialty Code (International Building Code)	3
G100	Fundamentals of Geology I or	
G101	Introduction to Geology I	3-4

<sup>1</sup> Successful completion of CS101 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement.

<sup>2</sup> Prepares those with little construction experience in the areas of safety, tool use, and work readiness. Prerequisites can be waived upon assessment by the program coordinator. Assessment criteria includes work and experience history, demonstrable competencies, and/or "2+2" Early College Credit.

For more information contact the Construction Technology Department:

Grants Pass or Medford . . . . . (541) 245-7980  
 Toll free in Oregon . . . . . (800) 411-6508, Ext. 7980  
 e-mail . . . . . bbrown@rogucecc.edu  
 TTY . . . . . (541) 956-7338 or (541) 245-7587

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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3345 Redwood Highway • Grants Pass, OR 97527  
[www.rogucecc.edu](http://www.rogucecc.edu)