

2011 - 2012 Career and Technical Programs

Advanced Technology Division 541.463.5380

lanecc.edu

Construction Technology

Two-Year Associate of Applied Science Degree One-Year Certificate of Completion

Purpose To train students in the technical skills and knowledge of the construction industry. The graduate of this program can expect to work in the residential and commercial building construction field.

Learning Outcomes The graduate will:

- demonstrate basic carpentry skills for the construction industry.
- cut, fit, and assemble wood and other materials for building construction.
- demonstrate and use industry safety standards.
- use blueprint reading skills necessary to the profession.
- demonstrate knowledge of laser level and field elevations.
- be adequately prepared to enter the workforce in the field of construction.
- use appropriate library and information resources to research professional issues.
- interpret the concepts of a problem-solving task and translate them into mathematics.

Employment Trends

- Statewide, 476 annual openings for construction are projected in Oregon
- 40 openings are projected annually in Lane County

Those with formal training and relatd work experience have a competitive advantage in this labor market.

Wages

- Statewide average, \$18 hourly, \$41,500 annually (\$45,000+ with experience).
- Lane County average, \$21 hourly, \$46,000 annually.

Total.....

Costs in Addition to Tuition and Registration Fees (estimates)*	
Books	\$700
Class Fees	\$210
Tools	<u>\$100-200</u>

\$1.010-1.110

* Subject to change without notice.

Prerequisites Minimum placement score- of 68 in Reading OR completion of RD 080 OR prior college. A high school diploma or equivalent is recommended for all applicants to this program.

Admission Information Students may enter this program fall, winter or spring term. Students should attend a program orientation in fall terms (dates available in Counseling or Enrollment and Student Financial Services) or contact advisor/counselor in winter and spring terms.

Cooperative Education (Co-op) Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Under the supervision of the Construction Technology Co-op Coordinator and with instructor consent, a maximum of 18 Coop credits may be earned in lieu of required Construction Technology course credits. Contact Marv Clemons, Construction Technology Co-op Coordinator, Bldg. 8, Rm. 111, 541.463.3158, *clemonsm@lanecc.edu*.

Two-Year Associate of Applied Science Degree

First Year	Fall
CIS 101 Computer Fundamentals	3
CST 110 Blueprint Reading 1 *,D,G	3
CST 111 Construction Orientation and	
Environment *,1,D,G	2
CST 118 Building Construction *,D,G	5
MTH 076 Applied Geometry for Technicians	
or higher mathematics ^{*,D,G}	4
0	
Total Credits	17
	Winter
CST 118 Building Construction *,D,G	5
CST 122 Construction Codes ^{D,G}	2
CST 211 Blueprint Reading 2 ^{*,D,G}	3
PE/Health requirement ^{D,R}	3
WR 121 Introduction to Academic Writing *,D	4
Total Credits	17

Spring

CST 116 Construction Estimating ^{D,G}	. 4
CST 118 Building Construction *, D,G	5
CST 119 Building Construction Surveying ^{D,G}	3
Human Relations requirement ^R	3

Total Credits 15

Construction Technology

Second Year	Fall
Arts and Letters requirement ^R	3
CST 280 Co-op Ed: Construction D,G	3
DRF 142 Graphic Concepts	2
DRF 167 CAD 1 *	4
Directed electives (see list below)	3

Total Credits

15

16

5

	Winter
CST 280 Co-op Ed: Construction D,G	3
DRF 208 Residential Buildings *	4
Science or Computer Science course ^R	3
Directed electives (see list below)	6

Total Credits

Sg CST 280 Co-op Ed: Construction ^{D,G} Directed electives (see list below) Choice of: Arts/Letters, Science or Computer Science course, or Social Science/Human Relations requirement ^R	Spring 3 9 3
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Total Credits 15

Directed Electives (18 credits required for AAS degree)

Apprenticeship/Electronics Courses

APPR 101 Trade Skills Fundamentals ET129 Electrical Theory 1 ET130 Electrical Theory 2	4 4 4
Business Courses	
BA 101 Introduction to Business	4
BT 165 Introduction to Accounting Cycle	3
Drafting Courses	
DRF 137 Architectural Drafting – Plans*	4
DRF 168 CAD 2 *	4
DRF 205 Drafting: Structures *	4
DRF 207 Drafting: Strength of Materials *	4
Skill Development Courses	
LAT 131 Landscape Construction	3
LAT 141 Principles of Nursery Operations	2
LAT 155 Landscape Plants 1	4
LAT 156 Landscape Plants 2	4
LAT 157 Landscape Plants 3	4
WLD 121 Shielded Metal Arc Welding 1 *	4
WLD 122 Shielded Metal Arc Welding 2 *	4
Mathematics Courses, Choice of:	
MTH 070 Introductory Algebra *	5
MTH 086 Applied Algebra for Technicians *	4

MTH 086 Applied Algebra for Technicians *	
MTH 095 Intermediate Algebra or higher *	

One Year Certificate of Completion

Purpose To train students in the technical skills and knowledge of the construction industry. The graduate of this program can expect to work in the residential and commercial building construction field.

Learning Outcomes The graduate of the one year certificate will:

- demonstrate basic carpentry skills for the construction industry.
- cut, fit, and assemble wood and other materials for building construction.
- demonstrate and use industry safety standards.
- use blueprint reading skills necessary to the profession.
- demonstrate knowledge of laser level and field elevations.
- be adequately prepared to enter the workforce in the field of construction.

	Fall
CST 118 Building Construction *,D,G	5
CST 110 Blueprint Reading 1 *,D,G	3
CST 111 Construction Orientation and Environment *,1,D,G	2
MTH 076 Applied Geometry for Technicians *,D,G	
or higher mathematics	4
CIS 101 Computer Fundamentals	3

Total Credits 17

Winter

CST 118 Building Construction *,D,G	5
CST 122 Construction Codes ^{D,G}	2
CST 211 Blueprint Reading 2 *,D,G	3
PE/Health elective ^D	3
WR 121 Introduction to Academic Writing *,D	4

Total Credits 17

	Spring
CST 116 Construction Estimating ^{D,G}	4
CST 118 Building Construction *, D,G	5
CST 119 Building Construction Surveying ^{D,G}	3
Human Relations requirement	3

Total Credits 15

1 Corequisite requirement is CST 110 Blueprint Reading 1.

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Standard footnotes:

D Degree or certificate requirement; must be passed with grade of "C-" or better

G Must be taken for a grade, not P/NP; major requirement R Required for AAS degree

Prerequisite required
B Must be passed with grade of "B" or better to use as a prerequisite