



**2009-2010
Career and Technical
Programs**

**Advanced
Technology Division
(541) 463-5380**

**Two-Year Associate
of Applied Science
Degree**

**One-Year Certificate
of Completion**

Construction Technology

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 and 40 openings are projected annually in Lane County. Those with formal training and related work experience have a competitive advantage in this labor market.

Wages Statewide average, \$18 hourly, \$39,000 annually (\$45,000+ with experience). Lane County average, \$20 hourly, \$41,000 annually.

Costs in Addition to Tuition and Registration Fees (estimates)*

Books	\$700
Tools.....	\$100-200
Total	\$800-900

* 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.

Criteria Used for Admission 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 Co-op 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.

Program Advisor Betty Svarverud, Bldg. 12, Rm. 203, (541) 463-5378, svarverudb@lanecc.edu

Program Counselor Carolyn Litty, Bldg. 12, Rm. 202, (541) 463-5236, littyc@lanecc.edu

Construction Technology

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,M}		4
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 English Composition: Exposition and Introduction to Argument ^{*,D,W}		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

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

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		16

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

Directed Electives (18 credits required for AAS degree)

Apprenticeship Courses		
APPR 101 Trade Skills Fundamentals.....		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 170 CAD 3D [*]		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 095 Intermediate Algebra or higher [*]		5

One-Year Certificate of Completion

		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,M} 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 English Composition: Exposition and Introduction to Argument ^{*,D,W}		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 ^H		3
Total Credits		15

1. Corequisite requirement is CST 110 Blueprint Reading 1.

Standard footnotes:

- * Prerequisite required
- A Meets Arts/Letters requirement
- B Must be passed with grade of "B-" or better to use as a prerequisite
- 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

- H Meets Human Relations/Social Science requirement
- M Meets Mathematics requirement
- P Meets PE/Health requirement
- R Required for AAS degree
- S Meets Science/Math/Computer Science requirement
- W Meets Written Communications or English Composition requirement