



**2016 – 2017
Career Technical Programs**

**Advanced Technology Division
541.463.5380**

lanecc.edu

Construction Technology

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

Program Coordinator Tracy Rea, Bldg. 15, Rm. 201, 541.463.5151, reat@lanecc.edu

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 Upon completion of this degree, 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.

Admission Information See lanecc.edu/advtech/cst or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

Advising & Counseling classes.lanecc.edu/course/view.php?id=31255

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. 12, Rm. 120A, 541.463.3158, clemonsm@lanecc.edu

Job Openings Projected through 2020

Lane County openings 29 annually

Statewide openings 409 annually

Wages

Lane County average hourly \$21.32; average annual \$44,332

Oregon average hourly \$20.77; average annual \$43,212

Costs (Estimate based on 2015-16 tuition and fees. Consult Lane's website for updated tuition.)

Books	\$1,892
Instruments/Tools	\$200
Program Specific Fees	\$250
Resident Tuition and General Student Fees	\$10,586

Total Estimated Cost \$12,928

Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Course Requirements

1. All CST and MTH courses must be taken for a letter grade, not P/ NP, and must be passed with a "C-" or better to fulfill program requirements.

2. WR and PE/Health requirement must be passed with a Pass or "C-" or better to fulfill program requirements.
3. For choices in Foundational Skills and Discipline Studies, see AAS degree description.
4. See course descriptions for prerequisite and corequisite information.
5. Minimum placement score of 68 in Reading, OR completion of RD080, OR RD087 AND EL115, OR prior college. A high school diploma or equivalent is recommended for all applicants to this program.

First Year

CIS 101 Computer Fundamentals	4
CST 110 Blueprint Reading 1	3
CST 111 Construction Orientation and Environment	2
CST 118 Building Construction	5
MTH 085 Applied Geometry for Technicians	4

Winter

CST 118 Building Construction	5
CST 122 Construction Codes	2
CST 211 Blueprint Reading 2	3
PE/Health Elective	3
Choice of:	4

WR 121 Introduction to Academic Writing
WR 121H Introduction to Academic Writing

Spring

CST 116 Construction Estimating	4
CST 118 Building Construction	5
CST 119 Building Construction Surveying	3
Human Relations Requirement	3

Second Year

Arts and Letters Requirement	3
Directive Elective (see list of courses below)	4
CST 280 Cooperative Education: Construction	3
DRF 142 Graphic Concepts	2
DRF 167 CAD 1	4

Winter

CST 280 Cooperative Education: Construction	3
Science or Computer Science Course	3
Directed Electives (see list of courses below)	6
DRF 208 Residential Buildings	4

Spring

CST 280 Cooperative Education: Construction	3
Choice of:	3
Arts/Letters, Science or Computer Science course, or Social Science/Human Relations requirement	
Directed Electives (see list of courses below)	8

Directed Electives (18 credits required for AAS degree)

Apprenticeship/Electronics Courses

APPR 101 Trade Skills Fundamentals	4
ET 129 Electrical Theory 1	4
ET 130 Electrical Theory 2	4

Business Courses

BA 101 Introduction to Business	4
BT 165 Introduction to Accounting Cycle	3

Drafting Courses

DRF 137 Architectural Drafting – Plans	4
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Construction Technology

DRF 168 CAD 2.....	4
DRF 205 Drafting: Structures	4
DRF 207 Drafting: Strength of Materials.....	4

Skill Development Courses

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 075 Applied Algebra for Technicians.....	4
MTH 095 Intermediate Algebra or higher	5

Construction Technology

Offered by the Advanced Technology Division, 541.463.5380

One-Year Certificate of Completion

Program Coordinator Tracy Rea, Bldg. 15, Rm. 201, 541.463.5151, reat@lanecc.edu

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.

Admission Information See lanecc.edu/advtech/cst or contact the Advanced Technology Division, AdvTechPrograms@lanecc.edu

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Job Openings Projected through 2020

Lane County: 27 positions

Statewide: 404 positions

Wages

Lane County average hourly \$18.40; average annual \$38,268

Oregon average hourly \$17.43; average annual \$36,264

Costs (Estimates based on 2015-16 data for full-time students. Students attending part-time will incur additional term fees. Consult Lane's website for updated tuition and fees.)

Books	\$729
Instruments/Tools	\$200
Program Specific Fees.....	\$150
Resident Tuition and General Student Fees.....	\$5,357

Total Estimated Cost \$6,436

Course fees may change during the year. See the online credit class schedule for fees assigned to courses.

Gainful Employment Disclosure

Standard Occupational Classification: 47-2061.00

Go to the Department of Labor's O*Net website for a profile of this occupation:

Construction Laborers

Onetonline.org/link/summary/47-2061.00

Or check on these O*Net Related Occupations:

Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters onetonline.org/link/summary/47-3011.00

In academic year 2014-15, 6 students completed this certificate.

The program is designed to take 4 terms, or about 15 months of study to complete.

Lane Community College is committed to protecting student privacy and does not publish this rate for fewer than 10 graduates.

For privacy reasons under FERPA, loan information is not disclosed for programs with fewer than 10 graduates in the reported year.

Explanation of costs: lanecc.edu/esfs/credit-fees-and-expenses

Course Requirements

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2. WR and PE/Health requirement must be passed with a "C-" or better to fulfill program requirements.
3. See course descriptions for prerequisite information.
4. Minimum placement score of 68 in Reading, OR completion of RD080, OR RD087 AND EL115, OR prior college. A high school diploma or equivalent is recommended for all applicants to this program.

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CST 118 Building Construction	5
MTH 085 Applied Geometry for Technicians.....	4
	Winter
CST 118 Building Construction	5
CST 122 Construction Codes	2
CST 211 Blueprint Reading 2.....	3
Choice of:	4
WR 121 Introduction to Academic Writing	
WR 121H Introduction to Academic Writing	
PE/Health Elective.....	3
	Spring
CST 116 Construction Estimating	4
CST 118 Building Construction	5
CST 119 Building Construction Surveying	3
Human Relations Requirement.....	3

To request this information in an alternate format please contact the Center for Accessible Resources at (541) 463-5150 or accessibleresources@lanecc.edu.