

Water Conservation Technician

Two-Year Associate of Applied Science Degree

Purpose This degree prepares students to enter careers in the water field as water efficiency technicians and workers, coordinators, specialists or managers or as water management specialists and technicians. The program prepares students to design, implement and evaluate water conservation programs. Upon successful completion of the program students will have the opportunity to seek professional certification.

Learning Outcomes The graduate will:

- evaluate indoor and outdoor water use patterns for rural, urban, residential and commercial sites
- recommend water efficiency measures, wise water landscapes and efficient plumbing solutions
- design, implement and evaluate water conservation programs
- convey water conservation strategies to a broad audience using multiple communication methods
- understand regional regulatory context and international code trends as they pertain to water conservation
- develop basic knowledge of water resource economics and how economics relates to supply and demand
- understand water distribution, flow and elimination systems as well as time of use
- create technical reports and collect, interpret, display and explain data
- perform systems analysis using water bills, meters and other evidence to solve problems.

Employment Trends The annual projected number of openings in Oregon is growing moderately and in the future will grow rapidly along with population growth. In addition to openings resulting from growth, the need to replace retirees or those who transfer to other occupations will provide numerous job openings. Graduates must consider the entire nation for job placement as those that do will enhance their opportunities.

Wages in Oregon range from \$32,000 to \$48,500 annually plus benefits.

Costs in Addition to Tuition (estimated)* \$800 for the two-year degree program

*Subject to change without notice.

Admission Information A high school diploma (or equivalent) and completion of Math 065 or 070 is required for entry into the Water Conservation Technician Program along with a completed Water Program application form. This is a limited enrollment program. Contact the Science Department, 541.463.4729, Bldg 16, Rm. 252/253, youngg@lanecc.edu or ebbager@lanecc.edu or counselor, ganserd@lanecc.edu or meenaghang@lanecc.edu

Program Information Roger Ebbage, 541.463.3997, ebbager@lanecc.edu

Cooperative Education Cooperative Education is an important avenue to provide field experience to integrate theory and practice while developing skills and exploring career options. Students must complete a minimum of nine and a maximum of 18 Co-op credits. Co-op Learning sites and hours vary. Contact the Cooperative Education Division, Bldg 19, Rm. 231, 541.463.5203.

First Year	Fall
WATR 101 Intro to Water Resources ^{1,D,G}	3
BT 123 MS Excel for Business ^{*,D,G}	4
WR 121 Introduction to Academic Writing ^{2,5,6,G}	4
Choice of: ^{5,6,R}	2
Physical Education Activity Requirement	
Health requirement	

Total Credits 13

	Winter
SUST 101 Intro to Sustainability ^{1,D,G}	3
WATR 105 Water Conservation: Residential ^{1,D,G}	4
MTH 095 Intermediate Algebra ^{*,2,G}	5
WR 227 Technical Writing ^{*,5,6,A,G}	4
WATR 206 Co-op Ed: Water Conservation Seminar ^D	1
Choice of:	1
Physical Education Activity Requirement ^{5,6,R}	
Health requirement ^{5,6,R}	

Total Credits 18

	Spring
WATR 107 Water Conservation:	
Outdoor ^{1,D,G}	4
ECON260 Introduction to Environmental and Natural Resource Economics ^{*,1,D,G}	4
BI 103F General Biology: Wildflowers of Oregon (Regional Botany class) ^G	4
CG 203 Human Relations at Work ⁵	3

Total Credits 15

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Second Year

Fall	
WATR 210 Water Conservation: Industrial, Commercial ^{1,D,G}	4
WATR 208 Water Conservation: Agricultural ^{1,D,G}	4
WATR 261 Regional Water Policy ^{1,D,G}	3
WATR 280 Co-op Ed: Water Conservation ^{4,D,G}	3
Directed electives ^{5,7,D,G}	3

Total Credits 17

Winter	
WATR 215 Integrated Water Resources Management ^{1,D,G}	4
GIS 245 Maps and Spatial Information ^{*,D,G}	4
WATR 202 Fostering Sustainable Practices ^{1,D,G}	3
WATR 280 Co-op Ed: Water Conservation ^{4,D,G}	3
WATR 206 Co-op Ed Water Conservation Seminar.....	1
Arts/Letters requirement ^{5,6,R}	3

Total Credits 18

Spring	
WATR 220 Water Conservation Program Development ^{1,D,G}	4
WATR 221 Water Mechanical Systems ^{1,D,G}	4
WATR 280 Co-op Ed: Water Conservation ^{4,D,G}	3
Directed Elective ^{5,7,D,G}	3

Total Credits 14

- 1 Instructor permission required
- 2 Must be completed before spring term of the first year
- 3 Contains computation instruction to meet industry requirements
- 4 May also be taken during summer
- 5 Can be taken any term
- 6 See catalog for AAS requirements
- 7 Directed Electives:
 - ECON 200 Principles of Economics: Introduction to Economics
 - ECON 201 Principles of Economics: Introduction to Microeconomics
 - ECON 202 Principles of Economics: Introduction to Macroeconomics
 - ENVS 182 Atmospheric Environment and Population
 - ENVS 183 Aquatic Environment
 - ENVS 184 Global Climate Change
 - SOC 206 Institutions and Social Change
 - SP 100 Basic Communication
 - SP 105 Listening and Critical Thinking
 - SP 111 Fundamentals of Public Speaking
 - SP 112 Persuasive Speech
 - SP 115 Introduction to Intercultural Communication
 - SP 130 Business and Professional Speech
 - GIS 245, GIS 246, GIS 248
 - Any Business Administration (BA) or Business Technology (BT) classes
 - Any Energy Management (NRG) classes
 - Any Spanish (SPAN) Language classes
 - Any Graphic Design (GD), Multimedia (MUL) or Multimedia Production (MDP) classes
 - Any Landscape/Nursery Technology (LAT) or Construction (CST) classes
 - Any Journalism (J) classes
 - Any Geographic Information Science (GIS) classes

Standard footnotes:

- * Prerequisite required
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
R Required for AAS degree