

This presentation premiered at WaterSmart Innovations

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Lane Community College Water Conservation Technician Program

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Water Conservation Technician Program
Fully Online Associate of Applied Science 2-year Degrees

Program Development is funded by a National Science Foundation
Advanced Technical Education (NSF-ATE) Grant Titled:
Water Advanced Technological Education Resource for Individuals
(WATER-I)



Program

Overview

Two-year Associate of Applied Science (AAS)

Career / Technical Degree began in 2006

- 92 credit program
- Adjunct Faculty
 - Typically Water Conservation Practitioners
- Fieldwork Mentors
- Water Conservation Advisory Committee:
 - 2006 Advisory Committee helped develop program
 - Current National Advisory committee provides ongoing advice to meet workforce needs
 - Could serve as adjunct faculty





Learning Objectives

Purpose: The Water Conservation Degree program is exclusively online and prepares students for a career in Water Conservation

Students learn to evaluate:

- water use patterns;
- develop, implement, market/maintain water conservation programs;
- conduct public outreach;
- recommend water efficiency strategies;
- integrate alternative water sources;
- perform systems analysis to solve over-use issues.





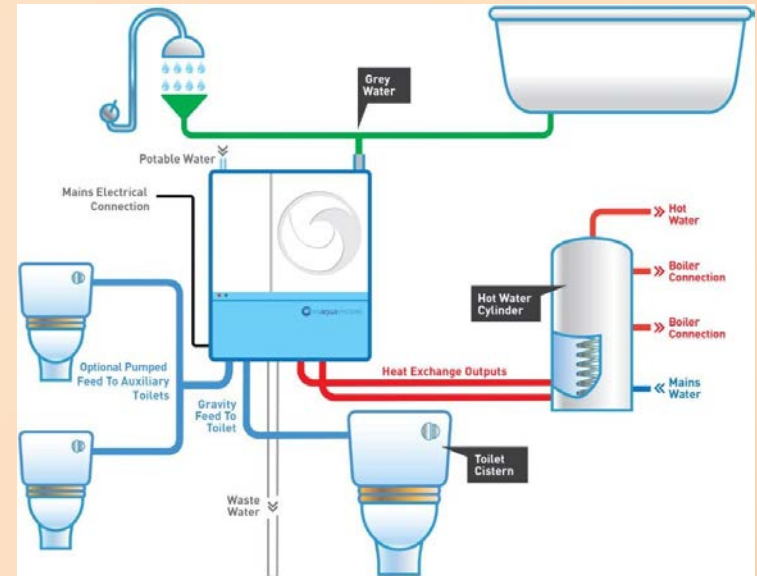
Employment

Graduate will be trained to fill positions like;

- Water Conservation Program Specialist,
- Water Resource Specialist,
- Stormwater Technician,
- Natural Resource Stewardship Coordinator,
- Sustainability Coordinator and many more.

Typical Employers are;

- Water Service Providers;
- Water and Electric Utilities;
- K-12 and Higher Education
- Federal, State, Local Government;
- Non-Government and Private Sectors Engineering





Earning Potential for Graduates

Job Title:

- Water Conservation Coordinator
- Water Resources Technician
- Water Management Specialist
- General Conservation Scientist

Annual Wage:

- \$36,546 - \$53,856
- \$43,152 - \$46,124
- 49,940 – 59,925
- \$30,730-\$54,640



Our Advisory Committee Members

Veronica Blette	EPA WaterSense, Chief
Steve Carper*	Tualatin Valley Water District, Oregon
Christine Chavez	City of Santa Fe, NM
Mary Ann Dickinson	Alliance for Water Efficiency
Bill Hoffman	Hoffman & Associates
Christine Hollenbeck*	Clackamas River Water Providers, Oregon
Regina Blasberg	College of the Canyons, California
Jill Hoyenga*	City of The Dalles, Oregon
John Koeller	Koeller & Company, California
Paul Lander*	University of Colorado, Boulder
Frank Loge	UC Davis, Center of Water & Energy Efficiency
Doug Pushard	Harvesth20.com, Director, New Mexico
Julie Smitherman*	City of Ashland, Oregon
Mark Taratoot*	City of Corvallis, Oregon
Amy Vickers	Vickers & Associates
Steve West*	Eugene Water & Electric Board Retired, Oregon
Kevin Wycoff	Lakewood Water District, Washington

* 2006 Advisory Committee Members



First Year

Fall

WATR 102 Water Careers Exploration	4
BT 123 MS Excel for Business	4
WR 121 Composition (Gen Ed)	4
GS 101 General Science	4
<u>Total Credits</u>	<u>16</u>

Winter

WATR 101 Intro to Water Resources	3
MTH 095 Intermediate Algebra (Gen Ed)	5
GIS 151 Geographic Information Systems (GIS)	4
WATR 154 Alternative Water Sources*	3
<u>Total Credits</u>	<u>15</u>

Spring

WATR 105 Water Conservation: Residential	4
ENSC 183 Aquatic Environment	4
GIS 245 GIS I	4
Human Relations Requirement	3
<u>Total Credits</u>	<u>15</u>



Second Year

Fall

WATR 261 Regional Water Policy	3
WATR 150 Water Resource Economics	4
WATR 110 Codes & Policies*	3
WR 227 Technical Writing	4
<u>Total Credits</u>	<u>14</u>

Winter

WATR 222 Stormwater Best Management	4
Directed Electives	4
WATR 220 Water Conservation Program Development	4
WATR 210 Water Conservation: Industrial/Commercial	4
<u>Total Credits</u>	<u>16</u>

Spring

WATR 202 Fostering Sustainable Practices	3
WATR 215 Integrated Water Management	4
WATR 280 Co-op Ed: Water Conservation	6
Physical Education Requirement	3
<u>Total Credits</u>	<u>16</u>



Fieldwork Mentors

Better than a thousand days of diligent study is one day with a great mentor.

Japanese Proverb

- Online degrees are fairly commonplace in many sectors of higher education.
- career-technical education (CTE) lags behind, in large part due to the hands-on fieldwork requirements of CTE type programs.
- **Together**, we can overcome that obstacle by establishing a network of utility fieldwork mentors who can provide essential water-related field experiences.



MENTOR ASSISTANCE

Fieldwork Examples

- Perform a water audit on a local residence or commercial site.
- Use and understand tools like EPA Watersense water budget and the WER index.
- Assist in identifying different remedies for stormwater mediation on a commercial/industrial site.



The world of Water Conservation is full of possibilities and hope!

- For **WATER-I**, we are working with the Western States Water Utilities and professionals to provide hands-on experiences for students who are taking our online water conservation classes!

We NEED Students and Fieldwork Mentors



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Thank you! Questions?

