This presentation premiered at WaterSmart Innovations

watersmartinnovations.com
Lane Community College
Water Conservation Technician Program

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Amanda Hatherly, Co-PI

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

### Total Credits
- **16**

## 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

### Total Credits
- **15**

## Spring
- **WATR 105 Water Conservation: Residential** 4
- **ENSC 183 Aquatic Environment** 4
- **GIS 245 GIS I** 4
- **Human Relations Requirement** 3

### Total Credits
- **15**
<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
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<tr>
<td><strong>Second Year</strong></td>
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<tr>
<td><strong>Fall</strong></td>
<td>WATR 261 Regional Water Policy</td>
<td>3</td>
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<td>WATR 150 Water Resource Economics</td>
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<tr>
<td></td>
<td>WATR 110 Codes &amp; Policies*</td>
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<td>WR 227 Technical Writing</td>
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<td><strong>Winter</strong></td>
<td>WATR 222 Stormwater Best Management</td>
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<td>Directed Electives</td>
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<td>WATR 220 Water Conservation Program Development</td>
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<td>WATR 210 Water Conservation: Industrial/Commercial</td>
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<tr>
<td><strong>Spring</strong></td>
<td>WATR 202 Fostering Sustainable Practices</td>
<td>3</td>
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<tr>
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<td>WATR 215 Integrated Water Management</td>
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<td>WATR 280 Co-op Ed: Water Conservation</td>
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<td>Physical Education Requirement</td>
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<td><strong>Total Credits</strong></td>
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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.
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