



# The Program in Water Conflict Management and Transformation

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OREGON WATER RESOURCES COMMISSION MEETING

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## Program in Water Conflict Management and Transformation

### Professional/Graduate Certificate Program

#### Certificate

- Skill-building training
- Practicum and real-world problem solving

#### Collaborative Facilitations and Mediations

- Skills-building workshops to promote cooperation between stakeholders

### Transboundary Freshwater Dispute Database (TFDD)

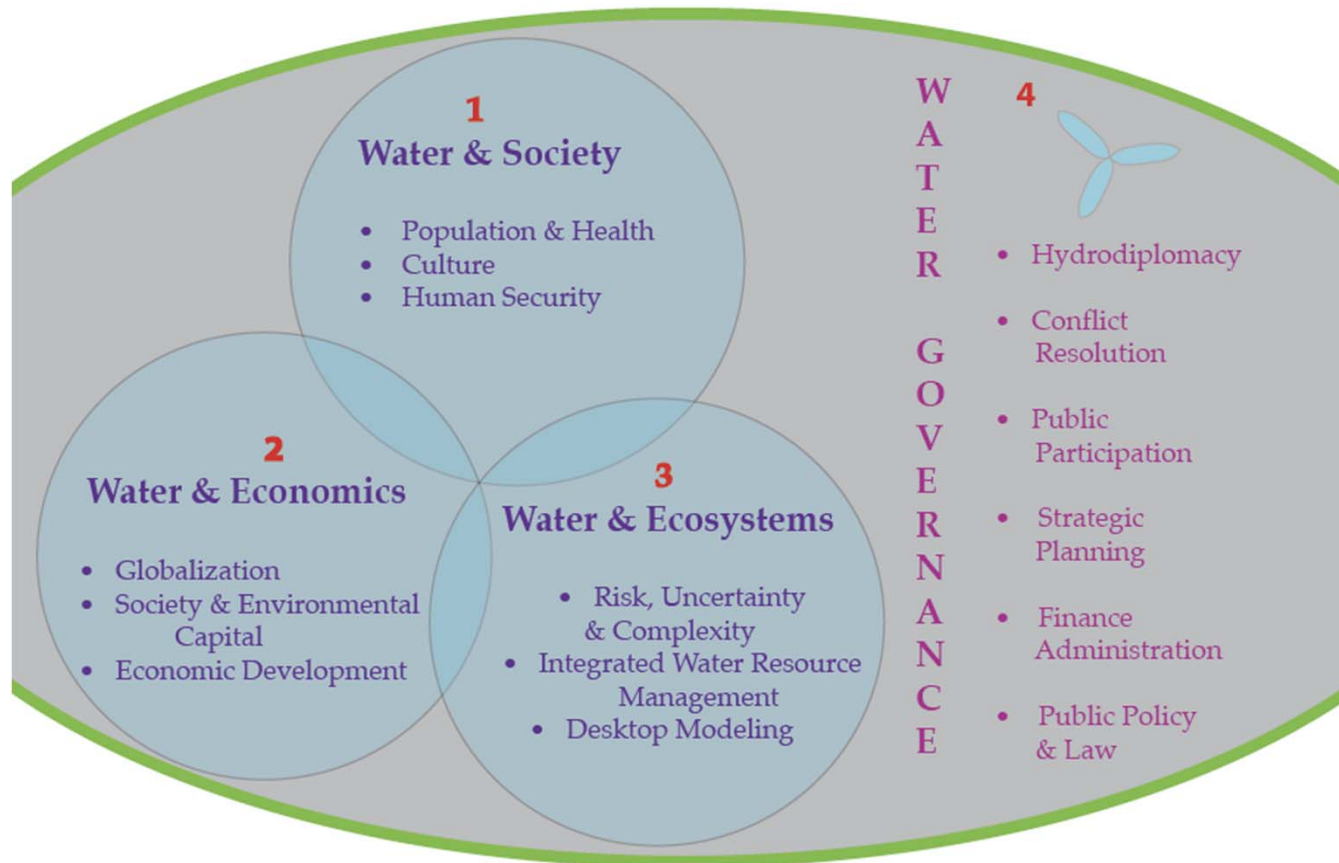
- A state-of-the-art GIS collection of international river basins
- Online databases documenting transboundary water treaties & events
- Can be used to better understand water-related conflict and cooperation

### Universities Partnership for Transboundary Waters

- Promotes a global water governance culture
- Facilitates “customized” solutions
- Enhance cooperation among stakeholders.
- 20 partners on five continents.



## The Overall Programmatic Framework of the Certificate in Water Conflict Management and Transformation





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## The Curriculum consists of 18 credits:

- Water and Society (3 credits required)
  - Water and Ecosystems (3 credits required)
  - Water and Economics (3 credits required)
  - Water Governance (3 credits required)
  - Capstone Course Work (3 credits required)
  - Capstone Practicum/Internship (3 credits required)
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## Capstone Course



WATER GOVERNANCE  
AND CONFLICT  
MANAGEMENT 2008

June 16-20, 2008  
Strand Agriculture Hall, Room 106  
Oregon State University  
Corvallis, Oregon



- How can we move debates about water resource issues beyond entrenched positions?
  - What are some less confrontational approaches that bring conflicting interests and institutions together to craft workable solutions?
  - What are some ways we ourselves can work more peacefully within contentious situations?
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## Capstone



# Collaborative Facilitations and Skills-Building Workshops

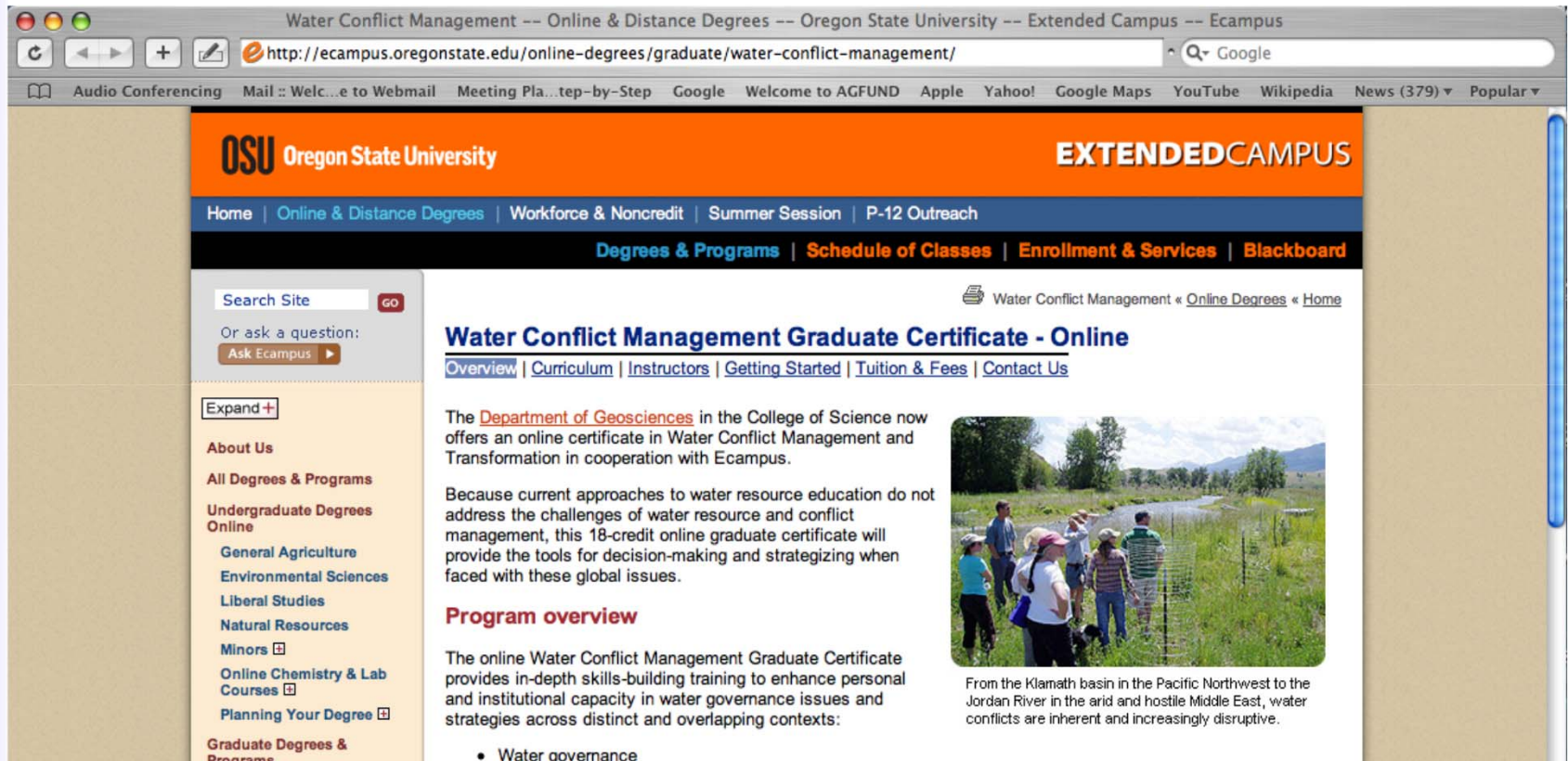
We hold skills-building workshops and training courses for graduate students and professionals from mid-career through the ministerial level





# Online Classes

<http://ecampus.oregonstate.edu/water>



The screenshot shows a web browser window displaying the Oregon State University Extended Campus website. The browser's address bar shows the URL <http://ecampus.oregonstate.edu/online-degrees/graduate/water-conflict-management/>. The website header features the OSU logo and "EXTENDED CAMPUS" branding. A navigation menu includes links for Home, Online & Distance Degrees, Workforce & Noncredit, Summer Session, and P-12 Outreach. Below this, a secondary menu lists Degrees & Programs, Schedule of Classes, Enrollment & Services, and Blackboard. A search bar is located on the left side of the page. The main content area is titled "Water Conflict Management Graduate Certificate - Online" and includes a breadcrumb trail: Water Conflict Management < Online Degrees < Home. The page provides an overview of the program, stating that the Department of Geosciences offers an 18-credit online graduate certificate in Water Conflict Management and Transformation. It highlights that current water resource education approaches do not address global challenges, and this certificate provides tools for decision-making and strategizing. A "Program overview" section notes that the certificate provides in-depth skills-building training. A list of topics includes "Water governance". An image shows a group of people in a field, and a caption explains that water conflicts are inherent and increasingly disruptive, from the Klamath basin in the Pacific Northwest to the Jordan River in the Middle East.

Water Conflict Management -- Online & Distance Degrees -- Oregon State University -- Extended Campus -- Ecampus

<http://ecampus.oregonstate.edu/online-degrees/graduate/water-conflict-management/> Google

Audio Conferencing Mail :: Wel...e to Webmail Meeting Pla...tep-by-Step Google Welcome to AGFUND Apple Yahoo! Google Maps YouTube Wikipedia News (379) Popular

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## Water Conflict Management Graduate Certificate - Online

[Overview](#) | [Curriculum](#) | [Instructors](#) | [Getting Started](#) | [Tuition & Fees](#) | [Contact Us](#)


The [Department of Geosciences](#) in the College of Science now offers an online certificate in Water Conflict Management and Transformation in cooperation with Ecampus.

Because current approaches to water resource education do not address the challenges of water resource and conflict management, this 18-credit online graduate certificate will provide the tools for decision-making and strategizing when faced with these global issues.

### Program overview

The online Water Conflict Management Graduate Certificate provides in-depth skills-building training to enhance personal and institutional capacity in water governance issues and strategies across distinct and overlapping contexts:

- Water governance



From the Klamath basin in the Pacific Northwest to the Jordan River in the arid and hostile Middle East, water conflicts are inherent and increasingly disruptive.

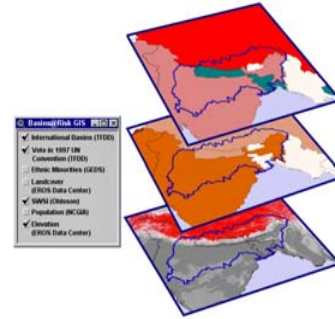




## Benefits of the Certificate

- Improve listening skills through practice and critiquing;
- Increase understanding of the culture and environment;
- Articulate the latest debates, insights, concepts;
- Uncover and assess conflicting water use interests;
- Analyze the significance of institutional frameworks;
- Successfully work and communicate in a multi-disciplinary, multi-cultural environment;

# The Transboundary Freshwater Dispute Database



The **award winning**, online international water database provides:

- 1) The **largest compendium** of worldwide water events, compacts, and treaties available;
- 2) A **state-of-the-art Geographic Information System** of the world's international river basins;
- 3) A **means to document and understand** conflict and cooperation over international freshwater resources; and
- 4) A **strategic and economically sound way** to begin the process of mitigating conflicts.

We invite you to visit us at:

<http://www.transboundarywaters.orst.edu/>



## Partners include...

### **The International Center for Integrated Water Resources Management (ICIWaRM)**

- UNESCO Category 2 water centre headquartered at the U.S. Army Engineer Institute for Water Resources (IWR)
- For continuing education, research and institutional capacity building in focal areas that include arid/semi-arid zones, droughts and floods, & climate change

**United Nations Educational, Scientific and Cultural Organization – International Institute for Hydraulic and Environmental Engineering (UNESCO-IHE)** to increase knowledge and skills in the water sector.

### **Transboundary Waters Assessment Project (TWAP)**

to develop transboundary waters assessment methods for the Global Environmental Facility (GEF)

### **The Universities Consortium on Columbia Basin Governance**

- inform process;
- determine scenarios;
- outcomes that might influence Columbia River Basin decisions.



*Universities Consortium  
for Columbia Basin Governance*



[www.columbiarivergovernance.org](http://www.columbiarivergovernance.org)

Cartography: Aimee Brown, April 2009

The expiration of the Columbia River Treaty, requiring new negotiations in 2014, will likely necessitate dramatic reallocations of flows, especially to long-neglected environmental and tribal needs

Greater hydropower demands as supplies of fossil fuels are depleted, combined with potential de-regulation, will put greater pressure on already over-allocated systems

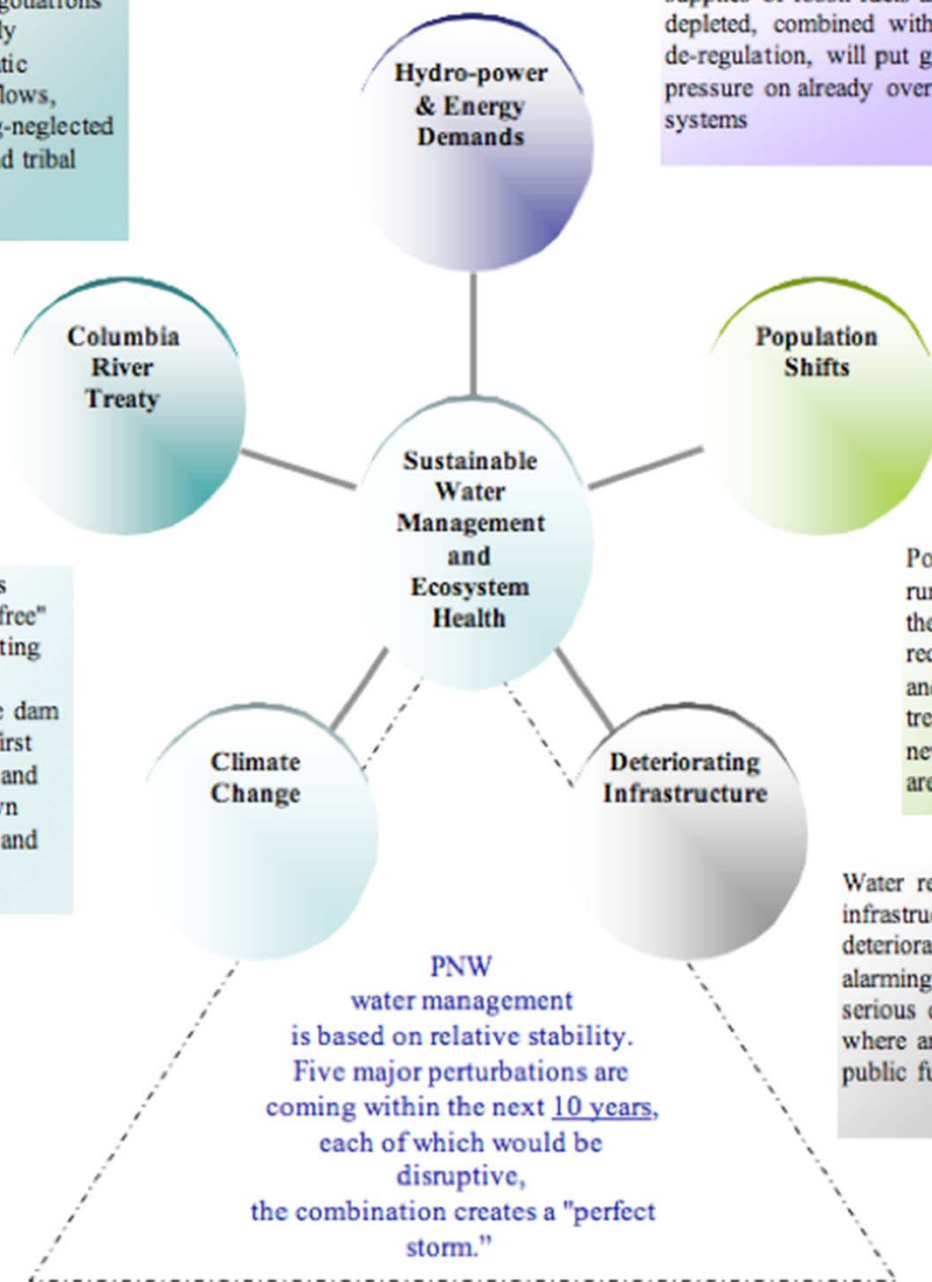
Climate change is depriving us of "free" storage, necessitating talk of massive programs of large dam building for the first time in 50 years, and will have unknown changes to crops and flow patterns

Population shifts to rural areas throughout the basin will further require reallocations, and stress water treatment processes as new, urban, pollutants are introduced

Water resources infrastructure in the US is deteriorating at an alarming rate, raising serious questions about where and when to invest public funds

PNW water management is based on relative stability. Five major perturbations are coming within the next 10 years, each of which would be disruptive, the combination creates a "perfect storm."

**Stakeholders**





## The Universities Consortium on Columbia River Governance

- Convenes and facilitates a nonpartisan forum for transboundary dialogue on Columbia River governance and the Columbia River Treaty;
- Provides decision-relevant information by connecting university research to the needs and interests of constituents within the basin; and
- Inspires and prepares future leaders by engaging students in research, education, and policy dialogues.





*"No problem can be solved  
from the same level of  
consciousness that created it."*

*- Albert Einstein*

Thank you!

Lynette de Silva

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[www.transboundarywaters.orst.edu/](http://www.transboundarywaters.orst.edu/)