WATER CONFLICT MANAGEMENT AND TRANSFORMATION GRADUATE MINOR

Graduate Areas of Concentration
Water conflict management and transformation

The graduate minor in Water Conflict Management and Transformation is designed to accommodate the needs of professionals and graduate students. It offers an integrative approach that explicitly integrates human and policy dimensions of water resources within the framework of scientific and technological solutions. The graduate minor is a flexible, coherent program that offers critical and underemphasized skills essential to preventing and resolving water conflicts. It helps facilitate dialogue on critical water issues across diverse values and perspectives, and it serves OSU students, citizens and officials in Oregon, the United States and internationally.

The curriculum centers around case-based, interactive course and fieldwork to provide an in-depth look at water conflict, conflict transformation, and prevention issues and strategies across four distinct and overlapping themes: water governance, water and ecosystems, water and society, and water and economics. Each theme incorporates several topics critical to understanding water conflicts. A highlight of the minor is the capstone course coupled with an intersession practicum working with watershed councils, landowners, and agencies in Northeast Oregon; and a guided and critiqued project in which two teams take on, for example, the roles of Jordan and Israel to negotiate a treaty for water resource allocation in a simulated water negotiation. These techniques will hone student skills, understanding and thought development. Students will also take part in fieldwork in a watershed or basin at risk of, or in, water conflict.

Through this minor, students will learn about and practice conflict transformation skills, explore what new institutional networks and relationships are needed, and how these can be achieved through role-playing, in-class exercises, and guest lectures. Students will also be introduced to leadership skills for guiding this type of change.

Contact Lynette de Silva, 541-737-7013, desilval@geo.oregonstate.edu, for additional information.

All students seeking a graduate minor are subject to all general policies governing the courses for the master's degree. As such, these students will be required to take a minimum of 50 percent graduate stand-alone courses. The remaining credits may be the 500-component of 400/500 slash courses.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>WRP 509</td>
<td>PRACTICUM</td>
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<tr>
<td>WRP 510</td>
<td>INTERNSHIP</td>
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**Water Governance**
Select one of the following:

- AEC 532  ENVIRONMENTAL LAW
- COMM 540  THEORIES OF CONFLICT AND CONFLICT MANAGEMENT
- FOR 562  NATURAL RESOURCE POLICY AND LAW
- FOR 563  ENVIRONMENTAL POLICY AND LAW INTERACTIONS
- GEOG 540  WATER RESOURCES MANAGEMENT IN THE UNITED STATES
- GEOG 541  INTERNATIONAL WATER RESOURCES MANAGEMENT
- PS 575  ENVIRONMENTAL POLITICS AND POLICY
- PS 577  INTERNATIONAL ENVIRONMENTAL POLITICS AND POLICY
- WRP 599  SPECIAL TOPICS (Oregon Water Law and Policy)

**Water and Society**
Select one of the following:

- ANTH 581  NATURAL RESOURCES AND COMMUNITY VALUES
- ENVE 531  FATE AND TRANSPORT OF CHEMICALS IN ENVIRONMENTAL SYSTEMS
- ENVE 532  AQUATIC CHEMISTRY: NATURAL AND ENGINEERED SYSTEMS
- ENVE 554  GROUNDWATER REMEDIATION
- ENVE 556  SUSTAINABLE WATER RESOURCES DEVELOPMENT
- FES 585  CONSENSUS AND NATURAL RESOURCES
- GEOG 530  RESILIENCE-BASED NATURAL RESOURCE MANAGEMENT
- H 512  INTRODUCTION TO ENVIRONMENTAL AND OCCUPATIONAL HEALTH SCIENCES
- H 514  ENVIRONMENT, SAFETY AND HEALTH SEMINAR
- H 527  CRITICAL ASSESSMENT OF INTERNATIONAL HEALTH PROGRAMS
- H 528  GLOBAL HEALTH ISSUES
- H 529  INTERNATIONAL HEALTH
- H 540  WATER AND HUMAN HEALTH
- H 541  AIR QUALITY AND HUMAN HEALTH
- PHL 540  ENVIRONMENTAL ETHICS
- PHL 543 or REL 543  WORLD VIEWS AND ENVIRONMENTAL VALUES
- PS 577  INTERNATIONAL ENVIRONMENTAL POLITICS AND POLICY
- SNR 520  SOCIAL ASPECTS OF SUSTAINABLE NATURAL RESOURCES
- SOC 580  ENVIRONMENTAL SOCIOLOGY
- SOC 581  SOCIETY AND NATURAL RESOURCES
- WRP 524  SOCIOTECHNOLOGICAL ASPECTS OF WATER RESOURCES

**Water and Ecosystems**
Select one of the following:

- BEE 512  PHYSICAL HYDROLOGY

Code    Title
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COMM 542 BARGAINING AND NEGOTIATION PROCESSES
COMM 546 COMMUNICATION IN INTERNATIONAL CONFLICT AND DISPUTES
WRP 521 WATER CONFLICT MANAGEMENT AND TRANSFORMATION

Capstone Practicum/Internship
Select one of the following:

- WRP 509 PRACTICUM
- WRP 510 INTERNSHIP
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BEE 558</td>
<td>NONPOINT SOURCE POLLUTION ASSESSMENT AND CONTROL</td>
</tr>
<tr>
<td>FE 530</td>
<td>WATERSHED PROCESSES</td>
</tr>
<tr>
<td>FE 532</td>
<td>FOREST HYDROLOGY</td>
</tr>
<tr>
<td>FW 526</td>
<td>COASTAL ECOLOGY AND RESOURCE MANAGEMENT</td>
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<tr>
<td>FW 579</td>
<td>WETLANDS AND RIPARIAN ECOLOGY</td>
</tr>
<tr>
<td>GEOG 523</td>
<td>SNOW HYDROLOGY</td>
</tr>
<tr>
<td>MNR 511</td>
<td>INTRODUCTION TO SUSTAINABLE NATURAL RESOURCES</td>
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<tr>
<td>SNR 530</td>
<td>ECOLOGICAL PRINCIPLES OF SUSTAINABLE NATURAL RESOURCES</td>
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<td>SNR 540</td>
<td>GLOBAL ENVIRONMENTAL CHANGE</td>
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<tr>
<td>WRS 532</td>
<td>APPLIED FIELD PROBLEMS</td>
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<tr>
<td>WRS 536</td>
<td>FUNDAMENTALS OF HYDROLOGY</td>
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**Water and Economics**

Select one of the following: 3

- AEC 505   | READING AND CONFERENCE  
- or AEC 507 | SEMINAR             
- AEC 534   | ENVIRONMENTAL AND RESOURCE ECONOMICS   
- AEC 550   | ENVIRONMENTAL AND NATURAL RESOURCE ECONOMICS   
- AEC 551   | APPLICATIONS OF ENVIRONMENTAL AND NATURAL RESOURCE ECONOMICS   
- SNR 521   | ECONOMICS OF SUSTAINABLE NATURAL RESOURCE MANAGEMENT   
- WRP 523   | ENVIRONMENTAL WATER TRANSACTIONS   
- WRP 599   | SPECIAL TOPICS (The Business of Water)   

Total Hours 18-20

**Minor Code:** 1006