WATER CONFLICT MANAGEMENT AND TRANSFORMATION GRADUATE CERTIFICATE

Also available via Ecampus.

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Non-degree students, and those requiring additional information and advising, should contact the program director.

The graduate certificate in Water Conflict Management and Transformation is an 18-credit interdisciplinary program. It is designed to provide graduate students, non-degree students, water professionals and decision-makers with the required specialized resources and skills to address the water demands and challenges of the 21st Century, in Oregon, across the United States and internationally.

The curriculum centers around case-based, interactive course and field work 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
- Water and Economics

Each theme incorporates several topics critical to understanding water conflicts.

Certificate Code: CG06

Advisor guidance and approval is required for each student's certificate program of study. All students seeking a graduate certificate 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% graduate stand-alone courses. The remaining credits may be the 500 component of 400/500 slash courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>WRP 509</td>
<td>PRACTICUM</td>
<td>3</td>
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<tr>
<td>WRP 510</td>
<td>INTERNSHIP</td>
<td>3</td>
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</tbody>
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**Water Governance**

Select one course from the following: 3

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 course from the following: 3-4

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 CONSSENSUS 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/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 SOCITECHNOLOGICAL ASPECTS OF WATER RESOURCES

**Water and Ecosystems**

Select one course from the following: 3-4

BEE 512 PHYSICAL HYDROLOGY
BEE 558 NONPOINT SOURCE POLLUTION ASSESSMENT AND CONTROL
FE 530 WATERSHED PROCESSES
FE 532 FOREST HYDROLOGY
FW 526 COASTAL ECOLOGY AND RESOURCE MANAGEMENT
FW 579 WETLANDS AND RIPARIAN ECOLOGY
GEOG 523 SNOW HYDROLOGY
MNR 511 INTRODUCTION TO SUSTAINABLE NATURAL RESOURCES
SNR 530 ECOLOGICAL PRINCIPLES OF SUSTAINABLE NATURAL RESOURCES
SNR 540 GLOBAL ENVIRONMENTAL CHANGE
WRS 532 APPLIED FIELD PROBLEMS
WRS 536 FUNDAMENTALS OF HYDROLOGY

**Water and Economics**

Select one course from the following: 3

BEE 512 PHYSICAL HYDROLOGY
BEE 558 NONPOINT SOURCE POLLUTION ASSESSMENT AND CONTROL
FE 530 WATERSHED PROCESSES
FE 532 FOREST HYDROLOGY
FW 526 COASTAL ECOLOGY AND RESOURCE MANAGEMENT
FW 579 WETLANDS AND RIPARIAN ECOLOGY
GEOG 523 SNOW HYDROLOGY
MNR 511 INTRODUCTION TO SUSTAINABLE NATURAL RESOURCES
SNR 530 ECOLOGICAL PRINCIPLES OF SUSTAINABLE NATURAL RESOURCES
SNR 540 GLOBAL ENVIRONMENTAL CHANGE
WRS 532 APPLIED FIELD PROBLEMS
WRS 536 FUNDAMENTALS OF HYDROLOGY
<table>
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<tbody>
<tr>
<td>AEC 505</td>
<td>READING AND CONFERENCE or AEC 507 SEMINAR</td>
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<tr>
<td>AEC 534</td>
<td>ENVIRONMENTAL AND RESOURCE ECONOMICS</td>
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<tr>
<td>AEC 550</td>
<td>ENVIRONMENTAL AND NATURAL RESOURCE ECONOMICS</td>
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<tr>
<td>AEC 551</td>
<td>APPLICATIONS OF ENVIRONMENTAL AND NATURAL RESOURCE ECONOMICS</td>
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<td>SNR 521</td>
<td>ECONOMICS OF SUSTAINABLE NATURAL RESOURCE MANAGEMENT</td>
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<tr>
<td>WRP 523</td>
<td>ENVIRONMENTAL WATER TRANSACTIONS</td>
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<tr>
<td>WRP 599</td>
<td>SPECIAL TOPICS (The Business of Water)</td>
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**Total Credits**: 18-20

**Major Code**: CG06