Sustainable Water Interdisciplinary Minor

Office in Johnson Hall, Room 119
watercenter.colostate.edu (http://watercenter.colostate.edu)

Coordinated by the CSU Water Center and the Colorado Water Institute, in partnership with the School of Global Environmental Sustainability.

Water is a complex, interdisciplinary topic that is critical to our economic, societal, and environmental well-being. Issues surrounding water supply, water quality, and ecological relationships have become increasingly important in Colorado, the American West, and internationally as water demands increase. The complexity of these issues, and competition among various water users, demands that students interested in pursuing careers in water gain a broad introduction to the issues while specializing within a particular discipline. Colorado State University has developed considerable water resource expertise in many academic fields over the past century. The Sustainable Water Interdisciplinary Minor (SWIM) requires 21 credits and a minimum of 12 upper-division (300-400-level) courses which allow undergraduates to take advantage of this expertise and broaden their backgrounds regarding water resources in order to prepare for employment or graduate-level work.

Effective Spring 2015

Students must satisfactorily complete the total credits required for the minor. Minors and interdisciplinary minors require 12 or more upper-division (300- to 400-level) credits.

Additional coursework may be required due to prerequisites.

Core Courses
AREC 240/ECON 240 Issues in Environmental Economics (GT-SS1) 3
AREC 342 Water Law, Policy, and Institutions 3
GR 304/WR 304 Sustainable Watersheds 3

THE FOUNDATIONS OF WATER 6
Select a minimum of 6 credits from the following Foundation course groups:

Select no more than one course from the following:
- BZ 104 Basic Concepts of Plant Life (GT-SC2)
- BZ 110 Principles of Animal Biology (GT-SC2)
- BZ 120 Principles of Plant Biology (GT-SC2)
- FW 204 Introduction of Fishery Biology
- LIFE 103 Biology of Organisms-Animals and Plants

Select no more than one course from the following:
- CHEM 103 Chemistry in Context (GT-SC2)
- CHEM 107 Fundamentals of Chemistry (GT-SC2)
- CHEM 113 General Chemistry II

Select no more than one course from the following:
- ESS 210/LIFE 210 Physical Geography
- GR 210 Introduction to Geography (GT-SS2)

Select no more than one course from the following:
- ESS 211 Foundations in Ecosystem Science

THE CONTEXT OF WATER 6
Select a minimum of 6 credits from the following Context courses:

Sociological-Economic Context
- AGRI 270/IE 270 World Interdependence-Population and Food (GT-SS3)
- AREC 341 Environmental Economics
- CON 476 Sustainable Practice-Design and Construction 2
- E 339 Literature of the Earth
- GES 101 Foundations of Environmental Sustainability
- JTC 461 Writing About Science, Health, and Environment
- NR 320 Natural Resources History and Policy
- PHIL 320 Ethics of Sustainability
- POLS 361 U.S. Environmental Politics and Policy
- SOC 323 Sociology of Environmental Governance
- SOC 461 Water, Society, and Environment

Ecological-Biological Context
- BZ 321 Aquatic Vascular Plants
- BZ 415 Marine Biology
- BZ 471 Stream Biology and Ecology
- BZ 474 Limnology
- ERHS 320 Environmental Health - Water and Food Safety
- FW 300 Ichthyology
- FW 400 Conservation of Fish in Aquatic Ecosystems
- HORT 368/LAND 368 Landscape Irrigation and Water Conservation

Physical Context
- ATS 150 Science of Global Climate Change
- CIVE 322 Basic Hydrology
- CIVE 330 Ecological Engineering
- CIVE 413 Environmental River Mechanics
- CIVE 423 Groundwater Engineering
- CIVE 440 Nonpoint Source Pollution
- GEOL 452 Hydrogeology
- SOCR 370 Irrigation Principles
- SOCR 371 Irrigation of Field Crops
- WR 406 Seasonal Snow Environments
- WR 416 Land Use Hydrology
- WR 418 Land Use and Water Quality
Sustainable Water Interdisciplinary Minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>WR 474</td>
<td>Snow Hydrology</td>
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**Program Total Credits**: 21

1. Only one context course per subject code may be counted toward the minor.
2. Enrollment in CON 476 is limited to Construction Management majors only.