SUSTAINABLE WATER INTERDISCIPLINARY MINOR

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

Coordinated by the CSU Water Center 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 in a particular discipline.

Colorado State University has developed considerable water resources 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 Fall 2016

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AREC 240/ ECON 240</td>
<td>Issues in Environmental Economics (GT-SS1)</td>
<td>9</td>
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<tr>
<td>AREC 342</td>
<td>Water Law, Policy, and Institutions</td>
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<tr>
<td>GR 304/WR 304</td>
<td>Sustainable Watersheds</td>
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FOUNDATIONS OF WATER

Select a minimum of 6 credits from the following Foundation course groups:

BZ 104 Basic Concepts of Plant Life (GT-SC2)
BZ 110 Principles of Animal Biology (GT-SC2)
BZ 120 Principles of Plant Biology (GT-SC1)
FW 204 Introduction to Fishery Biology
LIFE 103 Biology of Organisms-Animals and Plants

Select a minimum of 6 credits from the following Context courses:

AGRI 270/IE 270 World Interdependence-Population and Food (GT-SS3)
AREC 341 Environmental Economics
CON 476 Sustainable Practice-Design and Construction
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
PHIL 345 Environmental Ethics
POLS 361 U.S. Environmental Politics and Policy
SOC 323 Soc. of Environmental Cooperation & Conflict
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 Biology and Diversity of Fishes
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
WR 474   Snow Hydrology

Program Total Credits: 21

1 No more than 4 credits per subject code may be counted toward the Contexts of Water requirement.
2 Enrollment in CON 476 is limited to Construction Management majors only.