SUSTAINABLE WATER INTERDISCIPLINARY MINOR

Requirements Effective Fall 2022

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.

Code	Title	Credits
Core Courses (9 credits)		
Select one of the following courses:		3
AREC 240/ ECON 240	Issues in Environmental Economics (GT-SS1)	
AREC 340/ ECON 340	Introduction-Economics of Natural Resources	
AREC 341	Environmental Economics	
AREC 342	Water Law, Policy, and Institutions	3
GES 120	Water Sustainability in the Western US	3
Foundations of Water (3 credits)		
Select a minimum of 3 credits from the following Foundation course groups:		3
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-SC1)	
FW 204	Introduction to Fishery Biology	
LIFE 103	Biology of Organisms-Animals and Plants (GT-SC1)	
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/GR 210	Physical Geography	
GR 100	Introduction to Geography (GT-SS2)	
Select no more than one course from the following:		
ESS 211	Foundations in Ecosystem Science	
ESS 311	Ecosystem Ecology	
LAND 220/ LIFE 220	Fundamentals of Ecology (GT-SC2)	
LIFE 320	Ecology	
Select no more than one course from the following:		
GEOL 120	Exploring Earth - Physical Geology (GT-SC2)	
GEOL 122	The Blue Planet - Geology of Our Environment (GT-SC2)	
GEOL 124	Geology of Natural Resources (GT-SC2)	
GEOL 150	Physical Geology for Scientists and Engineers	
Select no more than one course from the following:		
PH 110	Physics of Everyday Phenomena (GT-SC2)	
PH 121	General Physics I (GT-SC1)	
PH 141	Physics for Scientists and Engineers I (GT-SC1)	
Contexts of Water (9 credits)		
Select a minimum of 9 credits from the following courses. At least 3 credits must be taken in each Context category.		9
Sociological-Economic Context		
AGRI 270/IE 270	World Interdependence-Population and Food (GT-SS3)	
AREC 340/ ECON 340	Introduction-Economics of Natural Resources [1]	
AREC 341	Environmental Economics [1]	
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	
MGT 360	Social and Sustainable Venturing	
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 and Social Justice	
Biological and Physical Context		
ATS 150	Science of Global Climate Change	
BZ 415	Marine Biology	
BZ 471	Stream Biology and Ecology	
CIVE 322	Basic Hydrology	
CIVE 330	Ecological Engineering	
CIVE 413	Environmental River Mechanics	
CIVE 423	Groundwater Engineering	
CIVE 440	Nonpoint Source Pollution	
ERHS 320	Environmental Health--Water Quality	
ESS 474	Limnology	
FW 300	Biology and Diversity of Fishes	
FW 301	Ichthyology Laboratory	
FW 400	Conservation of Fish in Aquatic Ecosystems	
GEOL 452	Hydrogeology	
HORT 368/ LAND 368	Landscape Irrigation and Water Conservation	
SOCR 370	Climate-Smart Irrigation Principles	
SOCR 371	Irrigation of Field Crops	
WR 204/GR 204	Sustainable Watersheds (GT-SC2)	
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] AREC 340/ECON 340 and AREC 341 cannot be used to satisfy both a Core and a Content requirement