

GLOBAL ENVIRONMENTAL CHANGE MINOR

The Global Environmental Change minor provides a comprehensive understanding of earth's interconnected environmental systems and the consequences of those changes to human well-being. Topics include climate change, land and ocean use, governance and policy, and related subjects in natural sciences. A maximum of three credits towards the minor may be transfer credits of courses equivalent to University of Connecticut courses. A maximum of six credits in the minor may be part of the major. Students cannot receive the minor within the same Environmental Sciences degree concentration.

Requirements

Total of at least 15 credits 2000-level or above, including one course from each area A-E. The same course cannot be used to fulfill more than one area.

A. Climate Change and Its Impacts

Course	Title	Credits
ERTH 3010	Earth History and Global Change	3
GEOG 3400	Climate and Weather	3
GEOG 4300		3
MARN 3000E	The Oceans and Global Climate	3
NRE 3115	Air Pollution	3
NRE 3146	Climatology	3
NRE 4170	Climate-Human-Ecosystem Interactions	3

B. Land and Ocean Use and Its Impact

Course	Title	Credits
EEB 2208E	Introduction to Conservation Biology	3
ERTH 3020	Earth Surface Processes	3
ERTH/MARN 3230	Beaches and Coasts	3
ERTH 4735/ NRE 4135	Introduction to Ground Water Hydrology	4
GEOG 3310		3
GEOG 3410E	Human Modifications of Natural Environments	3
MARN 3001	Foundations of Marine Sciences	4
MARN 3030	Coastal Pollution and Bioremediation	3
MARN 4066	River Influences on the Marine Environment	3
NRE 2215E	Introduction to Water Resources	3
NRE 2345	Introduction to Fisheries and Wildlife	3
NRE 3105	Wetlands Biology and Conservation	3
NRE 3115	Air Pollution	3
NRE 4340	Ecotoxicology	3

C. Natural Sciences

Course	Title	Credits
CHEM 4370	Environmental Chemistry - Atmosphere	3
CHEM 4371	Environmental Chemistry - Hydrosphere	3
EEB 2244E or EEB 2244WE	General Ecology	4
EEB 2245/2245W	Evolutionary Biology	3

EEB 3230/ MARN 3014	Marine Biology	3
EEB 3247		4
EEB/ERTH 4120	Paleobiology	4
ERTH 4110	Sedimentology and Stratigraphy	3
GEOG 2300E	Introduction to Physical Geography	3
GEOG 4210	Urban and Regional Planning	3
MARN 4030W	Chemical Oceanography	3
MARN 4060	Physical Oceanography	3
MARN 4202Q	Models of the Ocean Carbon Cycle	4
NRE 2455	Forest Ecology	3
NRE 3125	Watershed Hydrology	3
NRE 3145	Meteorology	3
NRE 4205	Stream Ecology	3
SPSS 2120	Environmental Soil Science	3
SPSS 3420	Soil Chemistry Components	4

D. Methods

Course	Title	Credits
CE 2251	Probability and Statistics in Civil and Environmental Engineering	3
CE/ENVE 3530/ ERTH 3710		3
EEB 4230W	Methods of Ecology	4
ERTH 4735/ NRE 4135	Introduction to Ground Water Hydrology	4
GEOG 3500Q	Geographic Data Analysis	3
GEOG/MARN 3505	Remote Sensing of Marine Geography	3
GEOG/ERTH 4230	GIS and Remote Sensing for Geoscience Applications	3
MARN 4202Q	Models of the Ocean Carbon Cycle	4
NRE 2000	Introduction to Geomatics	4
NRE 2010	Natural Resources Measurements	3
NRE 3305	African Field Ecology and Renewable Resources Management	4
NRE 3345/3345W	Wildlife Management Techniques	4
NRE 3535	Remote Sensing of the Environment	3
NRE 4335	Fisheries Management	3
NRE 4475	Forest Management	4
NRE 4535	Remote Sensing Image Processing	3
NRE 4544	Land Surveying for Environmental Management and Planning	4
NRE 4575		4
NRE 4665	Natural Resources Modeling	3
PHYS 2400	Mathematical Methods for the Physical Sciences	3
STAT 2215Q	Introduction to Statistics II	3
STAT 3025Q	Statistical Methods	3

E. Governance and Policy

Course	Title	Credits
AH 3174		3
ARE 2235		3
ARE 2434E	Environmental and Resource Policy	3

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ARE 3437E	Marine Fisheries Economics and Policy	3
ARE 4438E	Valuing the Environment	3
ARE 4462E	Environmental and Resource Economics	3
ECON/MAST 2467E	Economics of the Oceans	3
GEOG 3320W	Environmental Evaluation and Assessment	3
MAST/POLS 3832	Maritime Law	3
NRE 3000	Human Dimensions of Natural Resources	3
NRE 3201	Conservation Law Enforcement	3
NRE 3245E	Environmental Law	3
POLS/EVST 3412	Global Environmental Politics	3
SOCI 2707	Energy, Environment, and Society	3
or SOCI 2707W	Energy, Environment, and Society	

The minor is offered jointly by the College of Liberal Arts and Sciences and the College of Agriculture, Health and Natural Resources.