

ENVS Global Change Concentration Course List

Knowledge Competencies

Land and Ocean Use & its Impacts (2 of the Following)

EEB 2208 Introduction to Conservation Biology
GEOG 3310 Fluvial Geomorphology
GEOG 3410 Human Modifications of Natural Environments
GSCI 3020 Earth Surface Processes
GSCI/MARN 3230 Beaches and Coasts
MARN 3001 Coastal Systems Science II
MARN 3030 Coastal Pollution and Bioremediation
MARN 4066 River Influences on the Marine Environment
NRE 2215 Introduction to Water Resources
NRE 2345 Introduction to Fisheries and Wildlife
NRE 2600 Global Sustainable Natural Resources
NRE 3105 Wetlands Biology and Conservation
NRE 3115 Air Pollution
NRE 3155 Water Quality Management
NRE 4135/GSCI 4735 Introduction to Groundwater Hydrology
NRE 4340 Ecotoxicology

Natural Science (2 of the following)

CHEM 4370 Environmental Chemistry - Atmosphere
CHEM 4371 Environmental Chemistry - Hydrosphere
EEB 2244/W General Ecology
EEB 2245/W Evolutionary Biology
EEB 3230/MARN 3014 Marine Biology
EEB 3247 Freshwater Ecology
EEB/GSCI 4120 Paleobiology
GEOG 2300 Introduction to Physical Geography
GSCI 4110 Sedimentology
GSCI 4210 Glacial Processes and Materials
MARN 2002 Marine Science I
MARN 2060 Introduction to Coastal Meteorology
MARN 3003Q Environmental Reaction and Transport
MARN 4030W Marine Biogeochemistry
MARN 4060 Physical Oceanography
NRE 2455 Forest Ecology
NRE 3125 Watershed Hydrology
NRE 3145 Meteorology
NRE 3205 Stream Ecology
SPSS 2120 Environmental Soil Science
SPSS 3420 Soil Chemistry Components

Climate Change & its Impacts (2 of the following)

GEOG 3400 Climate and Weather
GEOG 4300 Advanced Physical Geography
GSCI 3010 Earth History and Global Change
MARN 3000 The Hydrosphere and Global Climate
NRE 2600 Global Sustainable Natural Resources
NRE 3115 Air Pollution
NRE 3146 Climatology
NRE 4170 Climate-Human-Ecosystem Interactions

Governance & Policy (1 of the following)

AH 3174 Environmental Laws, Regulations and Issues
ARE 2235 Marine Economics and Policy
ARE 3434 Environmental and Resource Policy
ARE 3437 Marine Fisheries Economics and Policy
ARE 4438 Valuing the Environment
ARE 4462 Environmental and Resource Economics
ECON/MAST 2467 Economics of the Oceans
EVST/POLS 3412 Global Environmental Politics
GEOG 3320W Environmental Evaluation and Assessment
MAST/POLS 3832 Maritime Law
NRE 3000 Human Dimensions of Natural Resources

NRE 3201 Conservation Law Enforcement
NRE 3245 Environmental Law
SOC1 3407/W Energy Environment and Society

Methods (1 of the following)

CE 2251 Probability and Statistics in Civil Engineering
CE/ENVE 3530/ GSCI 3710 Engineering and Environmental
Geology
EEB 3266 Field Herpetology
EEB 4230W Methods of Ecology
EEB 4262 Field Methods in Ornithology
GEOG 3500Q Geographic Data Analysis
GEOG/GSCI 4230 GIS and Remote Sensing for Geoscience
Applications
GEOG/MARN 3505 Remote Sensing of Marine Geography
GSCI 4735/NRE 4135 Introduction to Ground-Water Hydrology
MARN 3003Q Environmental Reaction and Transport
NRE 2000 Introduction to Geomatics
NRE 2010 Natural Resources Measurements
NRE 3305 African Field Ecology and Renewable Resources
Management
NRE 3345/W Wildlife Management Techniques
NRE 3535 Remote Sensing of the Environment
NRE 4335 Fisheries Management
NRE 4475 Forest Management
NRE 4535 Remote Sensing Image Processing
NRE 4544 Application of Surveying for Natural Resources
NRE 4545 Geodesy
NRE 4575 Natural Resource Applications of GIS
NRE 4665 Natural Resources Modeling
PHYS 2400 Mathematical Methods for Physical Sciences
STAT 2215Q Introduction to Statistics II
STAT 3025Q Statistical Methods (Calculus Level I)

***Courses cannot be used to fulfill more than one competency.**