

ENVIRONMENTAL AND ECOLOGICAL ENGINEERING MINOR

Approved EEE Minor Selective List: December 4, 2013

AAE [33300](#): Fluid mechanics
ABE [32500](#): Soil and Water Resource Engineering*
ABE [48500](#): Agricultural Engineering Design
ABE [52200](#): Ecohydrology
ABE [52700](#): Computer Models in Environmental and Natural Resources
ABE [56000](#): Biosensors: Fundamentals and Applications
ABE [58000](#): Process Engineering Of Renewal Resources
ABE 59100 (variable title): Non-point Source Pollution
ABE 59100 (variable title): Biomass feedstock systems engineering
ABE 59100 (variable title): Instrumentation and Data Acquisition
AGRY [25500](#): Soil Science
AGRY [33700](#): Environmental Hydrology
AGRY [38500](#): Environmental Soil Chemistry
AGRY [45000](#): Soil Conservation and Water Management
AGRY [53600](#): Environmental Biophysics
AGRY [54000](#): Soil Chemistry
AGRY [54400](#): Environmental Organic Chemistry
AGRY [54500](#): Remote Sensing of Land Resources
AGRY [56000](#): Soil Physics
AGRY [58000](#): Soil Microbiology
AGRY [58200](#): Environmental Fate of Pesticides
AGRY [58500](#): Soils and Land Use
AGRY 59800 (variable title): Ecological Footprints
ASM [33600](#): Environmental Systems Management
ASM [54000](#): GIS Applications
BIOL [43800](#): General Microbiology
BIOL [48300](#): Environmental and Conservation Biology
BIOL [54900](#): Microbial Ecology
BIOL [58500](#): Ecology
BME [52100](#): Biosensors: Fundamentals and Applications
CE [31100](#): Arch Engineering
CE [34000](#): Hydraulics
CE/EEE [35000](#): Environmental Engineering*
CE [35200](#): Biological Principles Of Environmental Engineering
CE [35300](#): Physico---Chemical Principles of Environmental Engineering
CE [38300](#): Geotechnical Engineering I
CE [40800](#): Geographic Information Systems in Engineering
CE [44000](#): Urban Hydraulics
CE [44300](#): Introductory Environmental Fluid Mechanics
CE [45600](#): Water and Wastewater Treatment
CE [45700](#): Air Pollution Control And Design
CE [51100](#): GPS Surveying
CE [51200](#): The Comprehensive Urban Planning Process
CE [51501](#): Building Energy Audits
CE [54000](#): Open Channel Hydraulics
CE [54100](#): Design of Hydraulic Structures
CE [54200](#): Hydrology
CE [54300](#): Coastal Engineering

CE [54400](#): Subsurface Hydrology
 CE [54500](#): Sediment Transport Engineering
 CE [54600](#): Computational River Hydraulics
 CE [54900](#): Computational Watershed Hydrology
 CE [55000](#): Physico-Chemical Processes in Environ. Engr.
 CE [55400](#): Aquatic Chemistry in Environmental Engineering
 CE [55500](#): Microbial Degradation of Pollutants
 CE [55700](#): Air Quality Management
 CE [59300](#): Environmental Geotechnology
 CE 49700/59700 (variable title): Critical Urban Infrastructure Systems
 CE 59700 (variable title): Sustain Bldg Dsgn Constr&Oper
 CE 59700 (variable title): Urban Systems Sustainability
 CE 59700 (variable title): Water Chemistry Env Eco Eng
 CE 59700 (variable title): Global Sustainable Engineering
 CE 59700 (variable title): Water Resources Sustainability
 CHE [33000](#): Principles of Molecular Engineering
 CHE [34800](#): Chemical Reaction Engineering
 CHE [37700](#): Momentum Transfer
 CHE [45600](#): Process Dynamics and Control
 CHE [53600](#): Particulate Systems
 CHE [54000](#): Transport Phenomena
 CHE 59700 (variable title): Advanced Solar Conversion
 CHM [48100](#): Environmental Chemistry
 CHM [58100](#): Atmospheric Chemistry
 CHM [58200](#): Chemistry of the Earth's Upper Atmosphere
 EAPS [30100](#): Oil!
 EAPS [30900](#): Computer-Aided Analysis for Geosciences
 EAPS [32000](#): Physics of Climate
 EAPS [37500](#): Great Issues: Fossil Fuels, Energy, and Society
 EAPS [42000](#): Global Change Modeling
 EAPS [44000](#): Geochemistry of Earth Elements
 EAPS [51900](#): Applications of Analytical Geosciences
 EAPS [52100](#): Atmospheric Chemistry
 EAPS [52200](#): Chemistry of the Earth's Upper Atmosphere
 EAPS [58300](#): Geology of Landfills
 EAPS [58400](#): Hydrogeology
 EAPS [58500](#): Hydraulic Analysis of Groundwater Systems
 EAPS [58600](#): Engineering Geology
 EAPS [58700](#): Chemical Evolution of Groundwater
 EAPS [58800](#): Analytical Hydrogeochemistry
 EAPS [58900](#): Numerical Modeling of Groundwater Systems
 EAPS 59100 (variable title): Instrumental Methods in Environmental Geochemistry
 EDCI [50600](#): Environmental Education
 EEE [25000](#): Environmental, Ecological, and Engineering Systems
 EEE [30000](#): Environmental and Ecological Systems Modeling
 EEE/CE [35000](#): Environmental Engineering*
 EEE 49500 (variable title): Biological Wastewater Treatment
 EEE 49500 (variable title): EEE Laboratory
 EEE 49500 (variable title): Urban Water Projects
 EEE 49500 (variable title): Wastewater Treatment Process
 ENTM [46000](#): Aquatic Entomology

EPCS 2XXXX, 3XXXX or 4XXXX: Three credits total required; Project must be environmental engineering related and the courses must be taken in consecutive semesters and be dedicated to the same project.

FNR [48800](#): Global Environmental Issues

FNR [54000](#): Wetlands Ecology

FNR [54300](#): Conservation Biology I

FNR [54500](#): Fisheries Management

FNR [55800](#): Digital Remote Sensing and GIS

FNR 59800 (variable title): Human Dimensions in Natural Resources

FNR 59800 (variable title): Landscape Ecology GIS

HSCI [52600](#): Principles of Health Physics and Dosimetry

HSCI [54500](#): Advanced Topics in Exposure Assessment

HSCI [54700](#): Environmental Epidemiology

HSCI [56000](#): Toxicology

IDE 49500 (variable title): Manufacture and Assembly

MCMP [56000](#): Toxicology

ME [30900](#): Fluid Mechanics

ME [41300](#): Noise Control of Acoustic Waves

ME [41800](#): Engineering of Environmental Systems and Equipment

ME [49200](#): Technology and Values

ME 49700 (variable title): Energy in a Global Context

ME [51400](#): Fundamentals of Wind Energy

ME [52500](#): Combustion

ME 59700 (variable title): Indoor Environment Analysis and Design

ME 59700 (variable title): Environmental Impacts of Alternative Energy

ME 59700 (variable title): Sustainable Dsgn & Manufac

ME 59700 (variable title): Sustainable Energy Options&Analy

ME 59700 (variable title): Solar Energy Technology

MET [42200](#): Power Plants and Energy Conversion

MET 49000 (variable title): Green Manufacturing and Sustainability

MET 58100 (variable title): Fuel Cell Fund, Modl & Diagnstc

MSE 49700 (variable title): Manufacture and Assembly

MSE 59700 (variable title): Energy Conversion Materials

NRES [38500](#): Environmental Soil Chemistry

NRES [45000](#): Soil Conservation and Water Management

NUCL [30000](#): Nuclear Structure and Radiation Interactions

NUCL [40200](#): Engineering of Nuclear Power Systems

NUCL [47000](#): Fuel Cell Engineering

NUCL [50300](#): Radioactive Waste Management

NUCL [54400](#): Nuclear Fuel Systems

* Courses with an asterisk can count for Selective course only if they are not used to satisfy required options.

Variable title = Temporary or special topics number. Course title must match. Note that these courses may be granted permanent course numbers in the future.

Courses not on this list, including special topics and independent study/research courses, can qualify for the minor with approval of the EEE Academics Committee. Talk to the EEE Associate Director of Advising to make a request for other courses.