A minor in Sustainability requires 18 credits, distributed as follows:

- 3 credits of CU 2010, *Sustainability Leadership*.
- 3 credits of approved engagement activities (e.g., Creative Inquiry, study abroad, independent research, co-ops, capstone projects) that focus on sustainability issues.
- 12 credits of courses focused on sustainability issues from the following list:
  - Including at least 9 credits at the 3000-level or higher
  - Including at least 3, but no more than 9, credits from the social dimension of sustainability (indicated by * in the table below).

### Course Code | Course Title
--- | ---
AGM 3010 | Soil and Water Conservation
APEC 2570 | Natural Resources, Environment, and Economics
APEC 3570 | Natural Resource Economics
APEC 4570* | *Natural Resource Use, Technology and Policy*
ARCH 4250 | Energy in Architecture
ARCH 4710* | *Architectural History of Place*
ARCH 4720* | *Architectural Field Studies*
BE 4080 | Land Treatment of Wastewater and Sludges
BE/EES/FOR 4510 | Newman Seminar and Lecture Series in Natural Resources Engineering
BE 4240 | Ecological Engineering
BE 4400/CE 4400 | Sustainable Energy Engineering
BE 4401/CE 4401 | Sustainable Energy Engineering Laboratory
BE 4640 | Non-Point Source Management in Engineered Ecosystems
BIOL 2040* | *Environment, Energy and Society*
BIOL 3130 | Conservation Biology
BIOL 4410 | Ecology
BIOL 4860 | Natural History
BT 2200 | Biosystems Technology I
BT 2201 | Biosystems Technology I Laboratory
BT 2400 | Biosystems Technology II
BT 2401 | Biosystems Technology II Laboratory
CE 4120 | Urban Transportation Planning
CE 4360 | Sustainable Construction
CE 4370 | Sustainable Energy Project Design and Analysis
CHE 4500/6500 | Chemical Reaction Engineering
COMM 3070* | *Public Communication of Science and Technology*
ECE 4200 | Renewable Energy Penetration on the Power Grid
ECE 4610 | Fundamentals of Solar Energy
ECE/ME 4570 | Fundamentals of Wind Power
ECE 4710 | Electric Vehicles and Energy Storage
ECON 3190 | Environmental Economics
EES 3030 | Water Treatment Systems
EES 3040 | Wastewater Treatment Systems
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>EES 4300</td>
<td>Air Pollution Engineering</td>
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<tr>
<td>EES 4800</td>
<td>Environmental Risk Assessment</td>
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<tr>
<td>EES 4840</td>
<td>Municipal Solid Waste Management</td>
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<tr>
<td>EES 4860</td>
<td>Environmental Sustainability</td>
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<tr>
<td>ENGL 4340 *</td>
<td>Environmental Literature</td>
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<tr>
<td>ENR 1010</td>
<td>Introduction to Environmental and Natural Resources</td>
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<td>ENR 3120*</td>
<td>Environmental Risks and Society</td>
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<td>ENR 4130</td>
<td>Restoration Ecology</td>
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<td>ENR 4290*</td>
<td>Environmental Law and Policy</td>
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<td>ENR 4500*</td>
<td>Conservation Issues</td>
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<td>ENSP/GEOL 1250</td>
<td>Sustainable Resource Use</td>
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<td>ENSP 2000</td>
<td>Introduction to Environmental Science</td>
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<td>ENSP 3150</td>
<td>Environment and Agriculture</td>
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<td>ENSP 4000*</td>
<td>Studies in Environmental Science</td>
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<td>ENSP 4720</td>
<td>Environmental Planning and Control</td>
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<td>Chemical Sources and Fate in Environmental Systems</td>
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<td>ETOX 4370</td>
<td>Ecotoxicology</td>
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<td>ETOX 4460</td>
<td>Soil and Water Quality: Fundamentals</td>
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<td>Soil and Water Quality: Applications</td>
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<td>Current Issues in Natural Resources</td>
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<td>Geographic Information Systems for Landscape Planning</td>
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<td>Silviculture</td>
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<td>Earth Resources</td>
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<td>GEOL 1200</td>
<td>Natural Hazards</td>
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<td>GEOL 2700*</td>
<td>Experiences in Sustainable Development: Water</td>
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<td>GEOL 4090*</td>
<td>Environmental and Exploration Geophysics</td>
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<td>GEOL 4091*</td>
<td>Environmental and Exploration Geophysics Laboratory</td>
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<td>HIST 1240*</td>
<td>Environmental History Survey</td>
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<td>HIST 3920*</td>
<td>History of the Environment of the United States</td>
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<tr>
<td>HORT 4561*</td>
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<td>Advanced Landscape Garden Design</td>
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<td>LARC 4230*</td>
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<td>ME 4200</td>
<td>Energy Sources and Their Utilization</td>
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<td>ME 4260</td>
<td>Nuclear Energy</td>
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MSE 4330  Combustion Systems and Environmental Emissions  
PES 3350  Agricultural Biotechnology  
PES 3351  Agricultural Biotechnology Laboratory  
PES 4080  Land Treatment of Wastewater and Sludges  
PES 4220  Major World Crops  
PES 4230  Field Crops - Forages  
PES 4450*  Regulatory Issues and Policies  
PES 4510*  Agricultural Biotechnology and Global Society  
PES 4900  Beneficial Soil Organisms in Plant Growth  
PHIL 3260*  Science and Values  
PHIL 3400*  Technology, Environment, and Sustainability  
PHIL 3450*  Environmental Ethics  
PHSC 1070  Introduction to Earth Science  
PHYS 2450  Physics of Global Climate Change  
PHYS 4200  Atmospheric Physics  
PKSC 3680*  Packaging and Society  
POSC 4160*  Interest Groups and Social Movements  
PRTM 4300*  World Geography of Parks and Equivalent Reserves  
RS 4010*  Human Ecology  
SOC 4030*  Technology, Environment and Society  
SOC 4330*  Globalization and Social Change  
SOC 4590*  The Community  
SOC 4710*  Population Issues and Methods  
STS 2150*  A Critical Approach to the Global Challenge of Technological Revolutions  
WFB 3130  Conservation Biology  
WFB 4180  Fishery Conservation  
WFB 4300  Wildlife Conservation Policy

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1 Approved and will appear in the 2015 catalog.  
2 Contact Jennifer Goree, goree@clemson.edu, with any questions.  
3 Engagement activities will be approved by CU 2010 instructors if they meet learning objectives for the minor.
Other courses may be submitted, through CU 2010 instructors, for approval for inclusion on this list.