GLOBAL CHANGE & LANDSCAPE DYNAMICS

The Global Change and Landscape Dynamics Concentration explores the patterns and processes interlinking biological species with landscape components in order to promote the sustainability and ecological integrity of terrestrial ecosystems at local, regional, and sub-continental geographic scales. This concentration is especially relevant for students interested in invasion biology; biological rarity; wildlife disease epidemiology; energy, nutrient, and organism exchanges; the distribution of land cover and land use; and other elements affecting the earth’s ecology.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>NRES 419</td>
<td>Env and Plant Ecosystems</td>
<td>3</td>
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<tr>
<td>NRES 465</td>
<td>Landscape Ecology</td>
<td>3</td>
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<tr>
<td>NRES 421</td>
<td>Quantitative Methods in NRES</td>
<td>3-4</td>
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<td></td>
<td>or NRES 440 Applied Statistical Methods I</td>
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**Ecology**

Select one of the following: 3-4

- NRES 420 Restoration Ecology
- NRES 431 Plants and Global Change
- NRES 462 Ecosystem Ecology
- IB 361 Ecology and Human Health
- UP 405 Watershed Ecology and Planning
- UP 406 Urban Ecology

**Geospatial Techniques**

Select one of the following: 2-4

- NRES 455 Adv GIS for Nat Res Planning
- NRES 460 Aerial Photo Analysis
- NRES 477 Introduction to Remote Sensing
- GEOG 412 Geospatial Tech & Society
- UP 316 Urban Informatics II

**Planning & Policy**

Select one of the following: 3-4

- NRES 325 Natural Resource Policy Mgmt
- NRES 310 Natural Resource Economics
- NRES 424 US Environ, Justic & Policy
- NRES 425 Natural Resources Law & Policy
- NRES 426 Renewable Energy Policy
- NRES 439 Env and Sustainable Dev
- NRES 446 Sustainable Planning Seminar
- ACE 406 Environmental Law

**Environmental Quality**

Select one of the following: 3-4

- NRES 351 Introduction to Environmental Chemistry
- NRES 403 Watersheds and Water Quality
- NRES 438 Soil Nutrient Cycling
- NRES 474 Soil and Water Conservation
- NRES 475 Environmental Microbiology
- ATMS 449 Biogeochemical Cycles

Information listed in this catalog is current as of 08/2018