# AOSS Undergraduate Curriculum - Climate Impact Concentration

<table>
<thead>
<tr>
<th>Semester</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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<tbody>
<tr>
<td><strong>Course 1</strong></td>
<td>Math 115 4</td>
<td>Math 116 4</td>
<td>Math 215 4</td>
<td>Math 216 4</td>
<td>A OSS 380 Intro Rad Transfer 4</td>
<td>A OSS 350 Atmos Thermo* 4</td>
<td>A OSS 410 Earth Sys Models 4</td>
<td><strong>A OSS 480 Climate Change: Move to Action 3</strong></td>
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<td><strong>Course 2</strong></td>
<td>Chem 125/126 &amp; 130 or Chem 210/211 5</td>
<td>Phys 140/141 5</td>
<td>Phys 240/241 5</td>
<td>A OSS 323 Earth Sys Analysis 4</td>
<td>A OSS 370 Solar-Terrestrial Relations 4</td>
<td>Conc Group I** 4</td>
<td>Conc Group II** 3</td>
<td>ENGR 450 Multidisciplinary Change 4</td>
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<td><strong>Course 3</strong></td>
<td>Engin 100 4</td>
<td>Engin 101 4</td>
<td>A OSS 320 Earth Sys Evolution 4</td>
<td>A OSS 321 Earth Sys Dynamics 4</td>
<td>Tech Elective 4</td>
<td>Con Group I** 4</td>
<td>Con Group II** 3</td>
<td>Tech Elective 4</td>
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<td><strong>Semesters</strong></td>
<td>Intellectual Breadth 3</td>
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<td>Unrestricted Elective 6</td>
<td>Unrestricted Elective 5</td>
<td>Experiential Course** 4</td>
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<td><strong>Core</strong></td>
<td><strong>Technical Elective 1-2</strong></td>
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**EXPERIENTIAL - Climate Impact**

- A OSS 462 Instrumentation for Atmos. and Space Sci. (4)
- A OSS 475 Earth System (4)
- A OSS 414 Weather Systems (3)
- **A OSS 588 Regional Scale Climate (4)**

**Group Courses - Climate Impact**

- A OSS 411 Cloud & Precip (3) / A OSS 422 Boundary Layer Meteorology (4)
- A OSS 463 (ENSCEN 463)Air Pollution Meteorology (3) / A OSS 479 (ENSCEN 479) Atmospheric Chemistry (4)
- ENVIRON 367 Global Enterprise & Sustainable Development (3) / NRE 550 Systems Thinking for Sustainable Development (3)
- ENVIRON 312 Environmental Politics and Policy (3) / ENG 521 Clean Tech Entrepreneurship (3)
- ENVIRON 408 Land Use, Policy and Law (3) / CMPLXSYS 250 Social Systems and Energy (3)
- CEE 230 Energy and Environment (3) / CEE 265 Sustainable Engineering Principles (3)
- NAVARCH 420. Environmental Ocean Dynamics (4) / NAVARCH 455. Environmental Nearshore Dynamics (4)
- NRE 541 Remote Sensing for Environmental GIS (4) / NRE 531 Principles of GIS (4)
- NRE 558 Water Resource Policy (3) / NRE 559 International Environmental Policy and Law (3)
- EEB 320 Rivers, Lakes and Wetlands: Introduction to Aquatic Ecosystems (4) / EEB 380 Oceanography: Marine Ecology (4)
- EARTH 284 Environmental Geology (4) / EARTH 325 Environmental Geochemistry (3)

**NOTE:**

- **A OSS 480 will not be taught Winter 2013. Possible replacements:**
  - NRE 501.060 Environmental Regulation (1.5) --- not full replacement
  - NRE 567 (it was NRE 501.032) Transportation Energy & Climate Policy (3)
  - NRE 523 Ecological Risk Assessment (F) (3) --- offered only in Fall
  - NRE 501.041 Climate Policy (3)
  - NRE 655 Climate and Development: Impacts, Mitigation and Adaptation in Less Developed Countries (3)

- **A OSS 588 will not be taught Winter 2013. Replacement:**
  - A OSS 473 Climate Physics (3)
  - Plus A OSS 499 Independent Study w/ Prof. Natasha Andronova or Prof. Mark Flanner