## ENSP Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Offered</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENSP101 (NS)</td>
<td>Intro to Env Science</td>
<td>Fa</td>
<td></td>
</tr>
<tr>
<td>ENSP102 (HS)</td>
<td>Intro to Env Policy</td>
<td>Sp</td>
<td></td>
</tr>
<tr>
<td>ENSP400 (SP)</td>
<td>Capstone</td>
<td>Fa,Sp</td>
<td></td>
</tr>
<tr>
<td>Calculus</td>
<td></td>
<td></td>
<td>Grade</td>
</tr>
<tr>
<td>MATH140 (MA)</td>
<td>Calculus I</td>
<td>Fa,Sp,Su</td>
<td></td>
</tr>
<tr>
<td>Statistics</td>
<td></td>
<td></td>
<td>Grade</td>
</tr>
<tr>
<td>BIOM301 (AR) or GEOG306 (AR)</td>
<td>Intro to Biometrics</td>
<td>Fa,W,Sp</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(one)</td>
<td>(strongly recommended)</td>
<td></td>
</tr>
</tbody>
</table>

## UM General Education

### Fundamental Studies (15 credits)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Course</th>
<th>Cr/AP/IB/D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Academic Writing (AW)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Professional Writing (PW)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Oral Communication (OC)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Math (MA)</td>
<td>MATH140</td>
</tr>
<tr>
<td></td>
<td>Analytical Reasoning (AR)</td>
<td>GEOG306</td>
</tr>
</tbody>
</table>

### Distributive Studies (25 credits)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Course</th>
<th>Cr/AP/IB/D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Natural Sciences w/Lab (NL)</td>
<td>ENSP Lab Sci</td>
</tr>
<tr>
<td></td>
<td>Natural Science (NS)</td>
<td>ENSP 101</td>
</tr>
<tr>
<td></td>
<td>History and/or Social Sci (HS1)</td>
<td>ENSP 102</td>
</tr>
<tr>
<td></td>
<td>History and/or Social Sci (HS2)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Humanities (HU1)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities (HU2)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Scholarship in Practice (SP, major)</td>
<td>ENSP 400</td>
</tr>
<tr>
<td></td>
<td>Scholarship in Practice (SP, non-major)</td>
<td>3</td>
</tr>
</tbody>
</table>

### I-Series (6 credits)*

* May double-count with Distributive Studies

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Course</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GEOG140</td>
<td>3</td>
</tr>
</tbody>
</table>

### Diversity (4-6 credits)*

* May double-count with Distributive Studies

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Course</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Understanding Plural Societies (UP) or Cultural Competency (CC)</td>
<td>3-6</td>
<td></td>
</tr>
<tr>
<td>Understanding Plural Societies (UP)</td>
<td>0-3</td>
<td></td>
</tr>
</tbody>
</table>

### Experiential Learning (0-3 credits)*

* May overlap with major requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Course</th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>An internship is required in this concentration.</td>
<td>ENSP 386</td>
<td>3</td>
</tr>
</tbody>
</table>

## Graduation Requirements

- Up to 6 AP courses may be used for Gen Ed
- There are at least 40 non-overlapping Gen Ed credits
- No more than 60 credits earned from Community College
- Last 30 credits must be earned at Maryland
- 120+ cumulative credits and 2.0+ cum GPA

### Courses from each category below as indicated:

#### Biology
- BSCI106 (NL) - Principles of Biology II | Fa,Sp,Su | Grade |

#### Chemistry
- CHEM131/132 (NL) - General Chemistry I | Fa,Sp,Su | Grade |

#### Earth Sci (both)
- GEOG201/211 (NL) - Geog Env Systems/Lab | Fa, Sp, Su | Grade |
- AOSC200/201 (NL) - Weather and Climate/Lab | Fa, Sp | Grade |

#### Economics (one)
- AREC240 (HS) - Intro to Econ and Env | Sp | Grade |
- AREC241 (HS, IS) - Env, Econ, and Policy | Fa | Grade |

#### Geography
- GEOG 130 (HS or SP) - Developing Countries | Fa, Su | Grade |
- GEOG 140 (IS) - Natural Disasters | Fa | Grade |

## ENSP Grade Requirement

- Students must earn C- or higher in all courses used for ENSP Core and Concentration requirements.
- Students’ major GPA must be 2.0 or higher.
### UPPER LEVEL REQUIREMENTS (12 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Cr</th>
<th>Offered</th>
<th>Prerequisites</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOSC 375/GEOL375</td>
<td>Introduction to the Blue Ocean</td>
<td>3</td>
<td>Fa</td>
<td>MATH 140</td>
<td></td>
</tr>
<tr>
<td>ENSP 342</td>
<td>Oceans &amp; Coasts: Integrated Policy</td>
<td>3</td>
<td>Sp</td>
<td>ENSP101, ENSP102, and junior standing.</td>
<td></td>
</tr>
<tr>
<td>GEOG 441</td>
<td>The Coastal Ocean</td>
<td>3</td>
<td>Sp</td>
<td>GEOG 201/211</td>
<td></td>
</tr>
<tr>
<td>ENST 450</td>
<td>Wetland Ecology</td>
<td>3</td>
<td>F of even years, 2014, 2016, etc</td>
<td>BIOM 301. Course may conflict with ENSP 400 and GEOG 373, so plan ahead, e.g., take GEOG 373 Summer or Winter terms.</td>
<td></td>
</tr>
</tbody>
</table>

Approved course substitution:

### TECHNICAL REQUIREMENTS (6 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Cr</th>
<th>Offered</th>
<th>Prerequisites</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 372</td>
<td>Remote Sensing</td>
<td>3</td>
<td>Fa,Sp,Su,W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 373</td>
<td>Geog Info Sys and Spatial Anal.</td>
<td>3</td>
<td>Fa,W,Su</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SYNTHESIS: 6 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Cr</th>
<th>Offered</th>
<th>Prerequisites</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENSP 386</td>
<td>Internship</td>
<td>3</td>
<td>F,Sp</td>
<td>Dept. permission</td>
<td></td>
</tr>
<tr>
<td>ENSP 400</td>
<td>Capstone</td>
<td>3</td>
<td>F,Sp</td>
<td>Senior standing and dept. permission</td>
<td></td>
</tr>
</tbody>
</table>

### RESTRICTED ELECTIVES (15 credits): Generally 2 courses in one area and 3 courses in the other, but check course credit levels carefully to be sure they add up.

#### Area 1 – COASTAL SCIENCE – must include at least two 300- or 400-level courses in Coastal Science:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Cr</th>
<th>Offered</th>
<th>Prerequisites</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOSC 400</td>
<td>Physical Meteorology of the Atmos</td>
<td>3</td>
<td>F</td>
<td>MATH 140 or perm.</td>
<td></td>
</tr>
<tr>
<td>AOSC 401</td>
<td>Global Environment</td>
<td>3</td>
<td>Sp</td>
<td>AOSC 400</td>
<td></td>
</tr>
<tr>
<td>BSCI 361</td>
<td>Ecology</td>
<td>4</td>
<td>F,Sp,Su</td>
<td>BSCI106</td>
<td></td>
</tr>
<tr>
<td>BSCI 375</td>
<td>Biological Oceanography</td>
<td>3</td>
<td>varies</td>
<td>BSCI 106 and BSCI 207</td>
<td></td>
</tr>
<tr>
<td>BSCI 473</td>
<td>Marine Ecology</td>
<td>3</td>
<td>Sp</td>
<td>BSCI 106 and BSCI 207</td>
<td></td>
</tr>
<tr>
<td>ENST 200</td>
<td>Fundamentals of Soil Science</td>
<td>4</td>
<td>Fa</td>
<td>CHEM 131/132</td>
<td></td>
</tr>
<tr>
<td>ENST 314</td>
<td>Fisheries and Sustainability</td>
<td>3</td>
<td>Sp*</td>
<td>*Offered even years (2012, 2014, etc)</td>
<td></td>
</tr>
<tr>
<td>ENST 373</td>
<td>Natural History of the Ches Bay</td>
<td>3</td>
<td>F</td>
<td>One semester of biological science</td>
<td></td>
</tr>
<tr>
<td>GEOG 340 or GEOE 340</td>
<td>Geomorphology</td>
<td>3</td>
<td>TBA</td>
<td>GEOG 201/211</td>
<td></td>
</tr>
<tr>
<td>GEOG 398 B</td>
<td>Adv Geog Environmental Sys</td>
<td>3</td>
<td>Sp</td>
<td>GEOG201/211</td>
<td></td>
</tr>
<tr>
<td>GEOG 472</td>
<td>Advanced Remote Sensing</td>
<td>3</td>
<td>Fa</td>
<td>GEOG 372</td>
<td></td>
</tr>
<tr>
<td>GEOG 473</td>
<td>Advanced Geog. Info. Systems</td>
<td>3</td>
<td>F,Sp</td>
<td>GEOG 373</td>
<td></td>
</tr>
<tr>
<td>GEOL 452</td>
<td>Watershed and Wetland Hydrology</td>
<td>3</td>
<td>Fa</td>
<td>MATH 140, GEOL 100, CHEM 131/132, or perm</td>
<td></td>
</tr>
<tr>
<td>GEOL 453</td>
<td>Ecosystem Restoration</td>
<td>3</td>
<td>Fa</td>
<td>Jr. standing</td>
<td></td>
</tr>
</tbody>
</table>

#### Area 2 – MANAGEMENT & GRADUATE SCHOOL PREPARATION

##### 2a – Management – must include at least one 300- or 400-level course in Management, below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Cr</th>
<th>Offered</th>
<th>Prerequisites</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 450</td>
<td>Theory and Prac of Env. Anth</td>
<td>3</td>
<td>F</td>
<td>Junior standing</td>
<td></td>
</tr>
<tr>
<td>ANTH 454</td>
<td>Anth of Travel and Tourism</td>
<td>3</td>
<td>Varies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AREC 453</td>
<td>Natural Resources and Public Policy</td>
<td>3</td>
<td>F</td>
<td>ECON 200, 201 and 326</td>
<td></td>
</tr>
<tr>
<td>AREC 454</td>
<td>Economics of Climate Change</td>
<td>3</td>
<td>Sp</td>
<td>ECON 200, 201 and 326</td>
<td></td>
</tr>
<tr>
<td>AREC 455</td>
<td>Economics of Land Use</td>
<td>3</td>
<td>F</td>
<td>ECON 200, 201 and 326</td>
<td></td>
</tr>
<tr>
<td>ENSP 330</td>
<td>Environmental Law</td>
<td>3</td>
<td>F, S</td>
<td>Junior standing; dept. perm.</td>
<td></td>
</tr>
<tr>
<td>ENSP 340</td>
<td>Water: Science, Ethics and Law</td>
<td>3</td>
<td>Fa</td>
<td>Junior standing; dept. perm.</td>
<td></td>
</tr>
<tr>
<td>GEOG 415</td>
<td>Land Use, Climate Change, &amp; Sust.</td>
<td>3</td>
<td>Sp</td>
<td>GEOG 201/211, GEOG 306 or equiv</td>
<td></td>
</tr>
<tr>
<td>GEOG 413</td>
<td>Culture and Natural Resource Mgmt</td>
<td>3</td>
<td>F</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

##### 2b – Graduate school preparation – may use up to two courses below as Restricted Electives.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Cr</th>
<th>Offered</th>
<th>Prerequisites</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 141</td>
<td>Calculus II</td>
<td>4</td>
<td>F,Sp,Su</td>
<td>MATH 140</td>
<td></td>
</tr>
<tr>
<td>CHEM 231/232</td>
<td>Organic Chemistry</td>
<td>4</td>
<td>F,Sp,Su</td>
<td>CHEM 131/132</td>
<td></td>
</tr>
<tr>
<td>PHYS 141</td>
<td>Physics</td>
<td>4</td>
<td>F,Sp</td>
<td>No longer offered</td>
<td>MATH141</td>
</tr>
<tr>
<td>PHYS161/174</td>
<td>Gen Physics: Mech and Part Dyn &amp; Physics laboratory intro</td>
<td>4</td>
<td>F,Sp,Su</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>