ENVIRONMENTAL SCIENCE BS  
Fall 2014 – Spring 2015

CONTACT INFORMATION
- Honors College Advisor: Patricia Granfield (pgranfie@gmu.edu)  
- Department Chair: Robert Jonas (rjonas@gmu.edu)  
- Department Advisor: Chris Parsons (ecm-parsons@earthlink.net)  
- Undergraduate Program Advisor: Chris Ruck (cruck@gmu.edu)

Once students begin attending Mason and declare a major they should see both their Honors College and their major department advisor for advising. Students must confirm their major requirements with their department advisor, with the University catalog and with PatriotWeb’s Degree Evaluation. Students may make an advising appointment with a departmental advisor through the advising link on the Environmental Science and Policy Website (http://esp.gmu.edu/academic-programs/undergraduate/advising/).

REQUIRED HOURS
- Hours Required in Major Requirements: 61-63  
- Hours Required in Honors: see Honors advisor  
- This major requires a total of 120 credits to graduate, 45 of which must be at the 300-level and above.

ADVISING SHEET
  - Honors College Requirement
  - Department Requirement
  - College Requirement

<table>
<thead>
<tr>
<th>1st Year – 1st Semester (Fall)</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HNRS 110: Research Methods (grade C or better required)</td>
<td>4</td>
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<tr>
<td>♦ MATH 113: Analytic Geometry and Calculus I (a placement exam is required)</td>
<td>4</td>
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<td>♦ CHEM 211 or 211H: General Chemistry</td>
<td>4</td>
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<tr>
<td>♦ EVPP 110: The Ecosphere: An Introduction to Environmental Science I</td>
<td>4</td>
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<tr>
<td>Semester Total</td>
<td>16</td>
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<tr>
<th>1st Year – 2nd Semester (Spring)</th>
<th>Credits</th>
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<tr>
<td>♦ HNRS 122: Reading the Arts</td>
<td>3</td>
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<tr>
<td>♦ MATH 111: Linear Mathematical Modeling or MATH 114: Analytic Geometry and Calculus II (prerequisite: C or better in MATH 113) or MATH 116: Honors Analytic Geometry and Calculus II</td>
<td>3-4</td>
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<tr>
<td>♦ EVPP 111: The Ecosphere: An Introduction to Environmental Science II or BIOL 213: Cell Structure and Function</td>
<td>4</td>
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<tr>
<td>♦ CHEM 212 or 212H: General Chemistry</td>
<td>4</td>
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<tr>
<td>Semester Total</td>
<td>14-15</td>
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<tr>
<th>2nd Year – 1st Semester (Fall)</th>
<th>Credits</th>
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<tr>
<td>♦ HNRS 131: Contemporary Society in Multiple Perspectives (or HNRS 230 in the spring)</td>
<td>3</td>
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<tr>
<td>♦ EVPP 305 &amp; 306: Environmental Microbiology Essentials and Lab</td>
<td>4</td>
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<tr>
<td>♦ GEOL 101: Introductory Geology (Prerequisite for GEOL 102)</td>
<td>4</td>
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<tr>
<td>♦ BIOL 214: Biostatistics for Biology Majors</td>
<td>4</td>
</tr>
<tr>
<td>Semester Total</td>
<td>15</td>
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### 2nd Year – 2nd Semester (Spring)
- HNRS 130: Conceptions of Self or HNRS 230: Cross-Cultural Perspectives (if needed to satisfy Honors College Requirement 3)
- BIOL 308 or BIOL 308H: Foundations of Ecology and Evolution
- GEOL 102: Introductory Geology II
- EVPP 361: Introduction to Environmental Policy

**Semester Total** 15

### 3rd Year – 1st Semester (Fall)
- HNRS 240: Reading the Past
- EVPP 377: Applied Ecology
- One of the following: EVPP 336: Human Dimensions of the Environment, EVPP 337: Environmental Policy Making in Developing Countries, EVPP 338: Economics of Environmental Policy or EVPP 362: Intermediate Environmental Policy
- CDS 130: Computing for Scientists
- PHYS 101: Light and Sound in our World

**Semester Total** 15

### 3rd Year – 2nd Semester (Spring)
- HNRS 353: Technology in the Contemporary World (grade of C or better required)
- EVPP 430: Fundamentals of Environmental Geographic Information Systems
- One of the following: EVPP 335, EVPP 480, PHIL 343, GEOL 420, GGS 303, or GGS 304, unless attending Smithsonian-Mason semester
- Electives from concentration

**Semester Total** 15

### 4th Year – 1st Semester (Fall)
- Electives from concentration / Smithsonian-Mason semester (Conservation Concentration only)
- Electives

**Semester Total** 15-16

### 4th Year – 2nd Semester (Spring)
- Electives from concentration
- Electives

**Semester Total** 15

**Total Hours** 120

**NOTES**
1. The Honors sections of these courses can be used to satisfy Honors College Requirement 3.
2. The major requires a minimum of 24 credits in one of five concentrations: Conservation, Ecological Science, Environmental Health, Human and Ecosystem Response to Climate Change, and Marine, Estuarine and Freshwater Ecology. Students should see their major department advisor for advising.
3. Students in the Human and Ecosystem Response to Climate Change concentration may not take EVPP 336 to fulfill this portion of the core requirements for the degree. They must take EVPP 337.

4. Students should pay particular attention to the timing and availability of course offerings as not all courses are offered every semester. For this reason, it is imperative that students meet with their program advisors on a semester basis to make sure courses are taken at the appropriate time. The scheduling of courses for some concentrations can be problematic; therefore it is imperative that students meet with their department advisor well in advance of each semester.

5. The Smithsonian-Mason semester is an academically demanding program that allows students to earn 16 credit hours toward the Conservation concentration. This program also offers students a professional development opportunity that enriches students for future endeavors. Students interested in this program are encouraged to apply for the fall semester of their senior year.

6. Students attending the Mason-Smithsonian semester receive credit for CONS 490, which satisfies this requirement.

NOTE: HONORS REQUIREMENTS (see advising section of Honors College website for further details)

• All Honors College students earning a BS degree must complete Requirements 1 and 2 of the Honors College Curriculum, including taking 3 courses under Requirement 2. In general, it is expected that students earning a BS will take HNRS 122, HNRS 131, and HNRS 240 to fulfill Requirement 2. If they do not, then they must complete the corresponding general education requirement with courses that are outlined in the University Catalog for your catalog year.

• Students earning a BS degree must complete Requirement 3 by taking two additional Honors courses beyond Requirements 1 and 2 of the Honors College Curriculum. These courses must be approved by your Honors College advisor in your Plan of Study.