ENVIRONMENTAL SCIENCE BS
Fall 2019 – Spring 2020

CONTACT INFORMATION
- Honors College Advisor: Tahmina Rahman (trahman5@gmu.edu)
- Department Chair: Alonso Aguirre (aaguirr3@gmu.edu)
- Undergraduate Coordinator: Dr. Joris van der Ham (jvanderh@gmu.edu)
- Advising: students may make an appointment with a departmental advisor through the departmental advising link (https://gmu.campus.eab.com/).

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 (http://catalog.gmu.edu/colleges-schools/science/environmental-policy/environmental-science-bs/#requirementstext), and with PatriotWeb’s Degree Evaluation.

HONORS REQUIREMENTS (see advising section of Honors College website for further details https://honorscollege.gmu.edu/academics/academic-advising)
- Honors College students must complete all courses in the Honors curriculum. Any substitutions for these courses should be approved by your Honors College advisor.

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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</thead>
<tbody>
<tr>
<td>o HNRS 110: Principles of Research &amp; Inquiry</td>
<td>4</td>
</tr>
<tr>
<td>o HNRS 122: Reading the Arts</td>
<td>4</td>
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<tr>
<td>♦ CHEM 211/211H General Chemistry I and CHEM 213: General Chemistry Lab I</td>
<td>4</td>
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<tr>
<td>♦ EVPP 210: Environmental Biology: Molecules and Cells</td>
<td>4</td>
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<tr>
<td>Semester Total</td>
<td>16</td>
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<thead>
<tr>
<th>1st Year – 2nd Semester (Spring)</th>
<th>Credits</th>
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<tr>
<td>o HNRS 130: Identity, Community, &amp; Difference</td>
<td>3</td>
</tr>
<tr>
<td>♦ MATH 111/111H: 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>
</tr>
<tr>
<td>♦ EVPP 301: Environmental Science: Biological Diversity and Ecosystems</td>
<td>4</td>
</tr>
<tr>
<td>♦ CHEM 212/212H: General Chemistry II and CHEM 214: General Chemistry Lab II</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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<tbody>
<tr>
<td>♦ Math 113: Analytic Geometry &amp; Calculus 1 (placement test required)</td>
<td>3</td>
</tr>
<tr>
<td>♦ EVPP 302: Environmental Science: Biomes and Human Dimensions</td>
<td>4</td>
</tr>
<tr>
<td>♦ EVPP 305: Environmental Microbiology Essentials and EVPP 306: Lab</td>
<td>4</td>
</tr>
<tr>
<td>♦ BIOL 214/214H: Biostatistics for Biology Majors</td>
<td>4</td>
</tr>
<tr>
<td>Semester Total</td>
<td>15</td>
</tr>
</tbody>
</table>
## 2nd Year – 2nd Semester (Spring)

- HNRS 131: Contemporary Social Issues 3
- EVPP 361: Introduction to Environmental Policy 3
- GEOL 102: Introductory Geology II 4
- CDS 130: Computing for Scientists 3
- HNRS 260 (Society & Community Engagement) or HNRS 261 (Community Connection Practicum) 3  

**Semester Total** 16

## 3rd Year – 1st Semester (Fall)

- HNRS 240: Reading the Past 3
- EVPP 337: Environmental Policy Making in Developing Countries 3
- EVPP 377: Applied Ecology 3
- Elective from concentration\(^2,3,7\) 3
- Elective\(^7\) 3  

**Semester Total** 16

## 3rd Year – 2nd Semester (Spring)

- HNRS 360 (Multi-Disciplinary Topics) or HNRS 361 (Multi-Disciplinary Practicum) 3
- If necessary, HNRS course(s) to complete the Honors curriculum\(^7\) 3
- EVPP 430: Fundamentals of Environmental Geographic Information Systems 3
- One of the following\(^3\): EVPP 378: RS: Ecological Sustainability, EVPP 401: Integrated Environmental Assessment, EVPP 480: Sustainability in Action, or CONS 490: Integrated Conservation Strategies\(^5\) 3-4
- One of the following\(^3\): EVPP 336: Human Dimensions of the Environment, EVPP 338: Economics of Environmental Policy, EVPP 362: Intermediate Environmental Policy, or EVPP 475: Global Biodiversity Governance 3  

**Semester Total** 15-16

## 4th Year – 1st Semester (Fall)

- Electives from concentration\(^2,3\) / Smithsonian-Mason semester\(^4\) 9-16
- Electives 0-6  

**Semester Total** 15-16

## 4th Year – 2nd Semester (Spring)

- Electives from concentration\(^2,3\) 3-9
- Electives 6-12  

**Semester Total** 15

**Total Hours** 120

### NOTES

1. While Honors sections are not required to complete the Honors curriculum, students are highly encouraged to take the Honors section to obtain a more in-depth understanding of the course.
2. The major requires a minimum of 21 credits in one of six concentrations: Conservation; Ecological Science; Environmental Health; Human and Ecosystem Response to Climate Change;
Marine, Estuarine and Freshwater Ecology; and Wildlife. Students should see their major department advisor for advising.

3. 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.

4. 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 the students a professional development opportunity that enriches students for future endeavors.

5. Only offered through the Smithsonian-Mason semester. Students attending the Mason-Smithsonian semester receive credit for CONS 490, which satisfies this requirement.

6. May be able to fulfill through the Honors curriculum, but need major advisor’s permission to do so.

7. At this point, students should be ready to declare a concentration and should prepare themselves for research/internships. Research opportunities may be pursued in a variety of ways, including OSCAR (https://oscar.gmu.edu) or U.S. Geological Survey (https://www.usgs.gov).