This minor has been designed to build scientific communication, engagement, and leadership practices so that students are (i) equipped to communicate effectively about the science they undertake and the challenges they face in ways that are meaningful in relation to their field of study, and (ii) equipped with the skills to participate and lead others in scientific ventures.

### Admissions & Policies

**Policies**

Eight credits of coursework must be unique to the minor and students must complete all coursework with a minimum GPA of 2.00. For policies governing all minors, see AP.5.3.4 Minors (http://catalog.gmu.edu/policies/academic/undergraduate-policies/#ap-5-3-4).

### Requirements

#### Minor Requirements

Total credits: 16-20

Students should refer to the Admissions & Policies tab for specific policies related to this program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COS 300</td>
<td>Professional Preparation for STEM Disciplines</td>
<td>3</td>
</tr>
<tr>
<td>COS 400</td>
<td>Problem Solving and Leadership in STEAM</td>
<td>3</td>
</tr>
</tbody>
</table>

**Leadership or Communication**

Choose one course from the following: 3-4

- EVPP 429 Environmental Science Communication
- COMM 302 Media Theory
- COMM 304 Foundations of Health Communication
- COMM 320 Business and Professional Communication
- CONF 300 Conflict Resolution Techniques and Practice
- ENGH 376 Rhetoric and New Media
- ENGH 388 Professional and Technical Writing
- ENGH 489 Proposal Writing and Development
- INTS 204 Leadership Theory and Practice
- INTS 406 Global Leadership (Mason Core) (http://catalog.gmu.edu/mason-core/)
- INTS 435 Leadership in a Changing Environment

**Quantitative Reasoning**

Choose one course from the following: 3-4

- MATH 111 Linear Mathematical Modeling (Mason Core) (http://catalog.gmu.edu/mason-core/)
- MATH 113 Analytic Geometry and Calculus I (Mason Core) (http://catalog.gmu.edu/mason-core/)
- MATH 125 Discrete Mathematics I (Mason Core) (http://catalog.gmu.edu/mason-core/)

**Computational Thinking**

Choose one course from the following: 3

- CDS 301 Scientific Information and Data Visualization
- CDS 302 Scientific Data and Databases
- GGS 110 Introduction to Geoinformation Technologies
- GGS 311 Introduction to Geographic Information Systems
- PHYS 251 Introduction to Computer Techniques in Physics

**Internship**

Choose one course from the following: 1-3

- ASTR 409 Astronomy Internship
- CLIM 409 Research Internship
- GEOL 480 Internship
- CDS 491 Internship
- EVPP 494 Internship
- FRSC 406 Forensic Internship
- GGS 480 GGS Internship
- PHYS 409 Physics Internship

**Total Credits**

16-20

1 Or any other internship course as approved by the minor advisor.