CIVIL ENGINEERING*  
(Environmental Track)
What is it?
- The study of engineering for the protection of human populations from the effects of adverse environmental factors; protection of environments from potentially deleterious effects of natural & human activities; & improvement of environmental quality.

What will I study?
- Analysis and design in the areas of structures, geotechnical, transportation, environmental, water resources, and construction

What courses will I need before I start?
- Calculus I
- Calculus II
- Calculus III
- Differential Equations or Engineering Math I
- General Chemistry I w/ Lab
- General Physics A w/ Lab
- General Physics B w/ Lab

Who can I contact for information?
- Tom Trimble, Coordinator
ttrimble@fsu.edu

ENVIRONMENTAL CHEMISTRY
What is it?
- The study of the composition, structure, reactivity, and properties of substances occurring in natural places.

What will I study?
- How to perform experiments, conduct research, and analyze the chemical properties of matter found in natural air, soil and water environments, and the chemical processes occurring in environmental systems

What courses will I need before I start?
- Calculus I
- Calculus II
- General Chemistry I w/ Lab
- General Chemistry II w/ Lab
- Organic Chemistry I (w/ Lab)
- Organic Chemistry II w/ Lab
- General Physics A w/ Lab
- General Physics B w/ Lab

Who can I contact for information?
- Joshua Cummings, Coordinator
jcummings@chem.fsu.edu

ENVIRONMENTAL SCIENCE
What is it?
- The interdisciplinary study of environmental systems from a scientific perspective.

What will I study?
- Chemical, biological, and physical building blocks leading to upper division study of geology, oceanography, and meteorology with an emphasis on research-based science

What courses will I need before I start?
- Calculus I
- Applied Statistics or Research Methods
- General Biology I w/ Lab
- General Biology II w/ Lab
- General Chemistry I w/ Lab
- General Chemistry II w/ Lab
- General Chemistry III w/ Lab
- General Physics A w/ Lab or College Physics A
- Physical Geology w/ Lab

Who can I contact for information?
- Tim McGann, Academic Specialist
tmcgann@fsu.edu

ENVIRONMENTAL SCIENCE & POLICY
What is it?
- The interdisciplinary study of environmental systems with a focus on environmental policy to solve environmental problems.

What will I study?
- Basic chemical, biological, and physical building blocks leading to upper division study of geology, oceanography, and meteorology with an emphasis on policy, humanities, and choice of minor

What courses will I need before I start?
- College Algebra
- Precalculus or Applied Statistics
- General Biology I w/ Lab
- General Biology II w/ Lab or General Chemistry I w/ Lab
- General Chemistry II w/ Lab
- Physical Geology w/ Lab

Who can I contact for information?
- Tim McGann, Academic Specialist
tmcgann@fsu.edu

Other majors you may want to consider: Biological Science, Chemical Science, Meteorology

Program information subject to change.

* denotes majors that are also available at the Panama City Campus. † denotes majors that are also available as Distance Learning.

Please refer to the FSU Academic Program Guide (academic-guide.fsu.edu) and Match Major Sheets (career.fsu.edu/resources) for specific course numbers & more information.

Effective Summer 2018
<table>
<thead>
<tr>
<th><strong>FSU TEACH – ENVIRONMENTAL SCIENCE</strong></th>
<th><strong>ENVIRONMENT &amp; SOCIETY</strong></th>
<th><strong>GEOGRAPHY</strong></th>
<th><strong>GEOLOGY</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What is it?</strong></td>
<td><strong>What is it?</strong></td>
<td><strong>What is it?</strong></td>
<td><strong>What is it?</strong></td>
</tr>
<tr>
<td>A double major program that involves collaboration between science and education intended to develop environmental science knowledge and the knowledge, skill, and experience needed to be an effective secondary science teacher.</td>
<td>A new program exploring how humans affect and are affected by changes in the natural environment.</td>
<td>The study of place and space, with the spatial organization of the earth’s surface. Geography provides a bridge between the physical and cultural worlds.</td>
<td>The study of the earth, its history, structure, composition, and evolution to form the planet we know today.</td>
</tr>
<tr>
<td><strong>What will I study?</strong></td>
<td><strong>What will I study?</strong></td>
<td><strong>What will I study?</strong></td>
<td><strong>What will I study?</strong></td>
</tr>
<tr>
<td>A primary focus in environmental science coupled with education requirements in preparation for teaching middle- or high-school environmental science</td>
<td>Environmental issues including ecosystem management, climate change, sustainability, and land use planning, and how these issues are debated, measured, evaluated, and form public policy</td>
<td>Basic concepts of spatial variation of human and natural phenomena, problem solving in such areas as human spatial systems and natural resources</td>
<td>Processes at work within the earth, the history of animal and plant life as recorded in rocks, applications of chemistry, physics, and biology</td>
</tr>
<tr>
<td><strong>What courses will I need before I start?</strong></td>
<td><strong>What courses will I need before I start?</strong></td>
<td><strong>What courses will I need before I start?</strong></td>
<td><strong>What courses will I need before I start?</strong></td>
</tr>
<tr>
<td>Calculus I</td>
<td>College Algebra</td>
<td>Calculus I</td>
<td>Calculus I</td>
</tr>
<tr>
<td>General Biology I w/ Lab</td>
<td>General Biology I w/ Lab</td>
<td>Calculus II or Applied Statistics</td>
<td>General Chemistry I w/ Lab</td>
</tr>
<tr>
<td>General Biology II w/ Lab</td>
<td>General Chemistry I w/ Lab</td>
<td>General Chemistry I w/ Lab</td>
<td>General Chemistry II w/ Lab</td>
</tr>
<tr>
<td>General Chemistry I w/ Lab</td>
<td>General Chemistry II w/ Lab</td>
<td>Physics A w/ Lab</td>
<td>Physics A w/ Lab</td>
</tr>
<tr>
<td>General Chemistry II w/ Lab</td>
<td>Physics B w/ Lab</td>
<td>Physics B w/ Lab</td>
<td>Physics B w/ Lab</td>
</tr>
<tr>
<td>Physics A w/ Lab</td>
<td>Physical Geology w/ Lab</td>
<td>Physical Geology w/ Lab</td>
<td>Physical Geology w/ Lab</td>
</tr>
<tr>
<td>Physical Geology w/ Lab</td>
<td>Inquiry Approaches to Teaching</td>
<td>Historical Geology</td>
<td>Historical Geology</td>
</tr>
<tr>
<td>Inquiry Based Lesson Design</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Who can I contact for information?</strong></td>
<td><strong>Who can I contact for information?</strong></td>
<td><strong>Who can I contact for information?</strong></td>
<td><strong>Who can I contact for information?</strong></td>
</tr>
<tr>
<td>Robin Smith, Associate Director <a href="mailto:smith@bio.fsu.edu">smith@bio.fsu.edu</a></td>
<td>College of Social Sciences Advising <a href="mailto:coss-advising@fsu.edu">coss-advising@fsu.edu</a></td>
<td>College of Social Sciences Advising <a href="mailto:coss-advising@fsu.edu">coss-advising@fsu.edu</a></td>
<td>Valarie J. Smith, Academic Advisor <a href="mailto:vjs12@fsu.edu">vjs12@fsu.edu</a></td>
</tr>
</tbody>
</table>

Other majors you may want to consider: Biological Science, Chemical Science, Meteorology

Program information subject to change.

* denotes majors that are also available at the Panama City Campus. † denotes majors that are also available as Distance Learning.

Please refer to the FSU Academic Program Guide [academic-guide.fsu.edu](http://academic-guide.fsu.edu) and Match Major Sheets [career.fsu.edu/resources](http://career.fsu.edu/resources) for specific course numbers & more information.

**Effective Summer 2018**

Please flip over for additional majors →