



# Sustainability and Environment Majors at FSU

## 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](mailto: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  
[jcumings@chem.fsu.edu](mailto:jcumings@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 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](mailto: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 Chemistry I w/ Lab
- General Biology II w/ Lab or General Chemistry II w/ Lab
- Physical Geology w/ Lab

### Who can I contact for information?

- Tim McGann, Academic Specialist  
[tmcgann@fsu.edu](mailto: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](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 →



# Sustainability and Environment Majors at FSU

## FSU TEACH – ENVIRONMENTAL SCIENCE

### What is it?

- 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.

### What will I study?

- A primary focus in environmental science coupled with education requirements in preparation for teaching middle- or high-school environmental science

### What courses will I need before I start?

- Calculus I
- General Biology I w/ Lab
- General Biology II w/ Lab
- General Chemistry I w/ Lab
- General Chemistry II w/ Lab
- Physics A w/ Lab
- Physical Geology w/ Lab
- Inquiry Approaches to Teaching
- Inquiry Based Lesson Design

### Who can I contact for information?

- Robin Smith, Associate Director  
[smith@bio.fsu.edu](mailto:smith@bio.fsu.edu)

## ENVIRONMENT & SOCIETY

### What is it?

- A new program exploring how humans affect and are affected by changes in the natural environment.

### What will I study?

- Environmental issues including ecosystem management, climate change, sustainability, and land use planning, and how these issues are debated, measured, evaluated, and form public policy

### What courses will I need before I start?

- College Algebra
- General Biology I w/ Lab
- General Chemistry I w/ Lab
- Environmental Science
- Physical Geography

### Who can I contact for information?

- College of Social Sciences Advising  
[coss-advising@fsu.edu](mailto:coss-advising@fsu.edu)

## GEOGRAPHY

### What is it?

- 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.

### What will I study?

- Basic concepts of spatial variation of human and natural phenomena, problem solving in such areas as human spatial systems and natural resources

### What courses will I need before I start?

- Two introductory Geography courses  
*Strongly recommended:*
- World Geography
- Human Geography

### Who can I contact for information?

- College of Social Sciences Advising  
[coss-advising@fsu.edu](mailto:coss-advising@fsu.edu)

## GEOLOGY

### What is it?

- The study of the earth, its history, structure, composition, and evolution to form the planet we know today.

### What will I study?

- Processes at work within the earth, the history of animal and plant life as recorded in rocks, applications of chemistry, physics, and biology

### What courses will I need before I start?

- Calculus I
- Calculus II or Applied Statistics
- General Chemistry I w/ Lab
- General Chemistry II w/ Lab
- Physics A w/ Lab
- Physics B w/ Lab
- Physical Geology w/ Lab
- Historical Geology

### Who can I contact for information?

- Valarie J. Smith, Academic Advisor  
[vjs12@fsu.edu](mailto:vjs12@fsu.edu)

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

Program information subject to change.

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