## Sustainability and Environment Majors at FSU

### Civil Engineering* (Environmental Track)
**What is it?**
- The study of creating the “built environment” and protecting the “natural environment.”

**What will I study?**
- How to design solutions to make the environment safe for humans and to restore the environment: water and wastewater treatment, water and groundwater clean-up, solid and hazardous waste management, air pollution control

**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 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 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

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

Program information subject to change. A * denotes majors that are also available at the Panama City Campus.

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 2017
### 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 science teacher.

**What will I study?**
- Chemical, biological, and physical building blocks leading to upper division study of oceanography, geology, and meteorology with an emphasis on research-based 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?**
- Tim McGann, Academic Specialist
tmcgann@fsu.edu

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**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

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**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
  - World Geography
  - Human Geography

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**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 Geography

**Who can I contact for information?**
- Valarie J. Smith, Academic Advisor
  vjs12@fsu.edu

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

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