Environmental Science & Policy (BA)
Guidelines

<table>
<thead>
<tr>
<th>College:</th>
<th>Arts &amp; Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited Access:</td>
<td>NO</td>
</tr>
</tbody>
</table>
| Contact: | Ms. Vinette Burns (advising)  
Dr. Jeff Chanton  
(program information)  
Dr. Bill Parker  
(program information) |
| Phone: | Burns: (850) 644-8582  
Chanton: (850) 644-7493  
Parker: (850) 644-1568 |
| Degree: | BA |
| Address: | Dept. of Earth, Ocean & Atmospheric Science  
Tallahassee, FL 32306-4320  
McGann: 403 Love  
Chanton: 305 OSB  
Parker: 207 CAR |
| Email: | vburns@fsu.edu  
jjchanton@fsu.edu  
wpark@fsu.edu |

Description of Major

Environmental Science is the interdisciplinary study of environmental systems from a scientific perspective. Drawing principally from the areas of oceanography, geology, meteorology, biology and chemistry, the Environmental Science program will prepare students in the broader area of geosciences and is an attractive option for students seeking a broader interdisciplinary major with the rigor of mathematics and the physical sciences at its core.

FSU offers both the BS and BA degrees in Environmental Science. The BA degree differs from the BS degree in lower-level mathematics requirements and a greater emphasis on policy. The goals of these programs are to prepare exceptionally well-qualified graduates prepared to work in the interdisciplinary earth sciences, whether in government agencies, NGOs, or the private sector. They also provide a strong basis for graduate study in environmental and interdisciplinary earth sciences.

Prequisite Coursework  

The following are being proposed as common program prerequisites.

- MAC X105 (3) College Algebra
- MAC X140 (3) Precalculus Algebra  or  STA X122 (3) Introduction to Applied Statistics
- BSC X010,X010L (3,1) Biological Science I, Lab
- CHM X045,X045L (3,1) General Chemistry I, Lab
- GLY X010C (4) Physical Geology with Lab

18 hours
Note: State-wide common prerequisites are always under review. For the most current information and for acceptable alternative courses, visit the “Common Prerequisites Manual.” This is available from the “College Students” section of http://FACTS.org/.

Requirements for graduation in the College of Arts & Sciences include

The College of Arts and Science requires proficiency in a foreign language through the intermediate (2220 or equivalent) level or sign language through the advanced (2614 or equivalent) level.

Admission / Continuation Requirements to Major Programs of Study include

Students should complete the prerequisite coursework for entrance to the major program of study. Students must also have completed a minimum of 52 hours of credit and at least half the required hours in Liberal Studies, including required English composition and Math, or an AA degree. No required course in which a student has earned a grade below C- may be applied toward the degree in Environmental Science. A student who has received more than five unsatisfactory grades (U, F, D-, D, D+) in science, statistics, or mathematics courses (and their prerequisites) taken at Florida State University or elsewhere, including repeated unsatisfactory grades in the same course, will not be permitted to graduate with a degree in this major.

Mapping

Mapping is FSU’s academic advising and monitoring system. Academic progress is monitored each Fall and Spring semester to ensure that students are on course to earn their degree in a timely fashion. Transfer students must meet mapping guidelines to be accepted into their majors. You may view the map for this major at www.academic-guide.fsu.edu.

Major Program of Studies at FSU   37 hours

A. Basic Environmental Science Courses (16 hours)

- **BSC 2011, 2011L** (3,1) Biological Science II, Lab or **CHM 1046, 1046L** (3,1) General Chemistry II, Lab
- **MET 1010** (3) Introduction to the Atmosphere or **MET 2700** (3) General Meteorology
- **OCE 4008** (3) Principles of Oceanography
- **OCE 4017** (3) Current Issues in Environmental Science or **1GLY 3039** (3) Energy, Resources and Environment
- **ISC 4915** (4) Senior Capstone
B. **Required Policy Courses (choose 6 hours selected from the following)**

- GEO 4357 (3)  Environmental Conflict and Economic Development
- GEO 4372 (3)  Natural Resources Assessment and Analysis
- PHI 2100 (3)  Reasoning and Critical Thinking
- PHI 2620 (3)  Environmental Ethics
- PUP 3002 (3)  Introduction to Public Policy
- PUP 4203 (3)  Environmental Politics and Policy
- URP 3000 (3)  Introduction to Urban and Regional Planning

C. **Required Environmental Science courses (choose a total of 15 hours from the lists below)**

At least 9 hours must be from List 1. Substitutions for these courses (Group C) require departmental permission.

**List 1**

- EOC 4631 (3)  Marine Pollution
- GLY 2100 (3)  Historical Geology
- GLY 3200C (3)  Earth Materials (Mineralogy and Crystallography)
- GLY 3610 (3)  Paleontology
- GLY 4511 (3)  Sedimentation and Stratigraphy
- GLY 4751C (3)  Introduction to Remote Sensing and GIS
- GLY 4820 (3)  Principles of Hydrology
- MET 3103C (3)  Climate Change Science  or  ISC 2003 (3)  Global Change  or  MET 2101 (3)  Physical Climatology
- MET 3220C (3)  Meteorological Computations
- MET 3300 (3)  Introduction to Atmospheric Dynamics
- MET 4159r (1-3)  Selected Topics in Meteorology
- OCB 4631 (3)  Estuarine and Coastal Ecology
- OCC 4060 (3)  Environmental Science Modeling
- OCE 4930r (3)  Oceanographic Studies (topics vary)—consent of instructor required
- OCE 4XXX (3)  Environmental Science II Habitable Planet (new number applied for)
- OCP 4005 (3)  Introduction to Physical Oceanography

**List 2**

- BSC 2011, BSC 2011L (3, 2)  Biological Science II and Lab
- CHM 1046, CHM 1046L (3, 1)  General Chemistry II and Lab
- CHM 4080 (3)  Environmental Chemistry I
- HFT 3700 (3)  Tourism Management and the Environment
- MAC 2311 (4)  Calculus I
- MAC 2312 (4)  Calculus II
- URP 3000 (3)  Introduction to Urban and Regional Planning (if not used as a “Required Policy Course.”)
- URP 4404 (3)  River Basin Planning
- URP 4423 (3)  Environmental Planning and Resource Management
**Additional Requirements for the Bachelor of Arts Degree**  
9 hours

The Bachelor of Arts degree requires nine (9) semester hours in the fields of humanities and/or history in addition to the Liberal Studies and the foreign language requirements.

---

**Minor**  
**At least 12 hours**

A minor is required. While many minors require only 12 hours, others require 18 hours or more. No courses used for satisfying Liberal Studies / general education requirements, the College foreign language requirement, or major requirements may also be counted toward the minor.

---

**Computer Skills Competency**  
0 hours beyond other requirements

- BSC 2010L (1)

---

**Oral Communication Competency**  
0-3 hours

Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level approved course, such as SPC 1017 or SPC 2608.

---

**Minimum Program Requirements Summary**

- Total Hrs. Required .......................................................... 120
- Liberal Studies ............................................................... 36*
- BA Prerequisite Coursework .......................................... 18*
- BA Major Coursework .................................................... 37*
- BA Additional Requirements .......................................... 9*
- Minor Coursework ......................................................... 12 or more
- Foreign Language ........................................................... 0-12 (depending on placement)
- Computer Skills ............................................................ 0 beyond major
Oral Communication Competency…………………………..0-3
Electives to bring total hours to……………………………..120

*Note: Some coursework required for this major (prerequisite/major) may also be applied to Liberal Studies or minor requirements.

Remarks

1. A minimum of 45 hours at the 3000 level or above, 30 of which must be taken at this University.
2. Half of the major course semester hours must be completed in residence at this University.
3. The final 30 hours must be completed in residence at this University.
4. The B.A. degree requires 9 additional hours in the fields of history and humanities.

Employment Information

**Representative Job Titles Related to this Major:** Environmental technician, geoscientist, environmental scientist, hydrologist, general physical scientist, and oceanographer. Some positions may require additional education or training.

**Representative Employers:** Federal, state, and local governments; NGOs; private employers.