Bachelor of Science in Environmental Science
Physical Science Program
Program Code S700

**Program Description:** The Bachelor of Science (BS) in environmental science is designed for students that wish to pursue a career as a laboratory/field technician and/or progress to a graduate degree program (MS or PhD). The curriculum will provide the students with a foundational understanding of science, critical thinking skills, experiential learning, ethics and specific technical knowledge and skills required to work in the laboratory or the field. The Physical Science track focuses on geology, hydrogeology, oceanography, and other aspects of environmental science. An optional Advanced Technical Certificate in Geographic Information Systems (GIS) provides additional discipline skills and knowledge that will make them competitive for employment within the environmental and physical science workforce.

**Career Pathway:** Science, Technology, Engineering, and Math (STEM)

**Program Entrance Requirements:** Entry requires completion of an AA/AS degree or transfer of 60+ credits (including general education) from another accredited institution. Applicants must have:

- a cumulative grade point average of 2.5 on a 4.0 scale
- submit a letter of recommendation
- submit all transcripts from previous institutions
- be approved by the Environmental Science department.
- Completed the following courses with a C or higher:
  - BSC2010, Introduction to Biology I
  - BSC2010L, Introduction to Biology I Lab
  - Chemistry
    - CHM1045 (preferred) or CHM1032 or CHM1025
  - Chemistry lab
    - CHM1045L or CHM 1032L or CHM 1025L
  - GLY1010, Physical Geology
  - GLY1010L, Physical Geology Lab
  - Statistics (STA2023) must be completed prior to entry or during the first year of baccalaureate study

**Additional Program Information:** This program collaborates with the University of Florida Ft. Lauderdale REC. Electives and certain courses will be taken as a transient student through UF. Completion of the degree requires PSC4912 (Independent Research in the Physical Sciences) or PSC4948 (Senior Internship).

You will earn Technical Certificates related to your program of study as you earn your AA, AS, AAS or Bachelor's degree.

**Related Industry Certifications:** N/A

**Foreign Language Requirement:** Students must successfully complete the foreign language requirement as prescribed in college policy and the college catalog.

**Location(s):** General Education courses can be taken at any college location. Some program specific courses may only be available at the A. Hugh Adams Central Campus. Please consult the course schedule for specific semester locations.

**Contact information:** Program contact information can be found at [www.broward.edu/academics/programs/Pages/science-technology-math-engineering-STEM.aspx](http://www.broward.edu/academics/programs/Pages/science-technology-math-engineering-STEM.aspx)
### Bachelor of Science in Environmental Science

**Physical Science Program**

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#### Related Programs at Broward College:
- Environmental Science Technology Associate of Science (2182)
- Geographic Information Systems Advanced Technical Certificate (4277)

#### Required Courses
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY4825</td>
<td>Hydrogeology</td>
<td>3</td>
<td>PCB4454C</td>
<td>Biostatistics with Lab</td>
<td>4</td>
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<tr>
<td>GLY4825L</td>
<td>Hydrogeology Lab</td>
<td>1</td>
<td>PCB4043</td>
<td>Ecology</td>
<td>3</td>
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<tr>
<td>OCE3008</td>
<td>Advanced Oceanography</td>
<td>3</td>
<td>MET4700</td>
<td>Atmospheric Processes</td>
<td>3</td>
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<tr>
<td>SWS3022</td>
<td>Introduction to Soil Science</td>
<td>3</td>
<td>PSC4911</td>
<td>Senior Research or</td>
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<tr>
<td>BSC4846</td>
<td>Scientific Communication</td>
<td>3</td>
<td>PSC4948</td>
<td>Senior Internship</td>
<td>3</td>
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<tr>
<td>GLY4746</td>
<td>Global Environmental Change</td>
<td>3</td>
<td>GIS Courses</td>
<td></td>
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<tr>
<td>GLY4203</td>
<td>Environmental Geology and Lithospheric Processes</td>
<td>3</td>
<td>Electives</td>
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<td>19</td>
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<td>GLY4731</td>
<td>Coastal and Marine Science</td>
<td>3</td>
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</table>

**Total Term Credit Hours**: 16

#### Recommended Course Sequencing

**First Year Term I**
- GIS Course*                          | 3
- GLY4825                               | 3
- GLY4825L                              | 1
- OCE3008                               | 3
- SWS3022                               | 3

**Total Term Credit Hours**: 16

**First Year Term II**
- BSC4846                               | 3
- Electives**                           | 11

**Total Term Credit Hours**: 14

**Second Year Term I**
- GLY4746                               | 3
- GLY4203                               | 3
- GLY4731                               | 3
- PCB4454C                              | 4
- Elective**                            | 3

**Total Term Credit Hours**: 16

**Second Year Term II**
- PCB4043                               | 3
- PSC4911                               | or
- PSC4948                               | 3
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>MET4700</td>
<td>Atmospheric Processes</td>
<td>3</td>
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<tr>
<td>Electives**</td>
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<td>5</td>
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<tr>
<td><strong>Total Term Credit Hours</strong></td>
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<td><strong>14</strong></td>
</tr>
<tr>
<td><strong>Total Upper Division Credit Hours</strong></td>
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<td><strong>60</strong></td>
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</table>

Notes: Many courses have specific pre-requisite and co-requisite requirements that must be followed. Students are encouraged to consult the Course Information Table for a detailed list of all requisite requirements.

*GIS Course options – GIS1000, GIS1030, GIS1040C, GIS1042C, GIS1047C, GIS4301C


General Education Courses will vary based on a student’s transcript.

Students are strongly encouraged to meet with an advisor to create an educational plan.