Bachelor of Science in Environmental Science
Biosecurity Program
Program Code S600

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 Biosecurity track focuses on ecology, entomology, plant science, genetics 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 biological 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
  - 2000+ level biology with lab
    - BSC2011 or ZOO2010 or BOT2010 or MCB2010 or ORH2527
  - 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 BSC4911 (Independent Research in the Biological Sciences) or BSC4948 (Senior Internship).

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

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BSC4846 Scientific Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENY3005 Principles of Entomology</td>
<td>2</td>
</tr>
<tr>
<td>ENY3005L Principle of Entomology Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENY4161 Insect Classification</td>
<td>3</td>
</tr>
<tr>
<td>PCB4043 Ecology</td>
<td>3</td>
</tr>
<tr>
<td>PCB3063 Genetics</td>
<td>3</td>
</tr>
<tr>
<td>PCB3063 Genetics Lab</td>
<td>1</td>
</tr>
<tr>
<td>PCB3023 Molecular and Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>SWS3022 Introduction to Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>GLY4746 Global Environmental Change</td>
<td>3</td>
</tr>
<tr>
<td>PCB4454C Biostatistics with Lab</td>
<td>4</td>
</tr>
<tr>
<td>ALS4163 Challenges in Plant Resource Protection</td>
<td>3</td>
</tr>
<tr>
<td>PLP3002C Fundamentals of Plant Pathology</td>
<td>3</td>
</tr>
<tr>
<td>BSC4911 Senior Research</td>
<td>3</td>
</tr>
<tr>
<td>PCB4454C Biostatistics with Lab</td>
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</tr>
</tbody>
</table>

Recommended Course Sequencing

First Year Term I
- BSC4846 Scientific Communication 3
- ENY3005 Principles of Entomology 2
- ENY3005L Principle of Entomology Lab 1
- ENY4161 Insect Classification 3
- PCB4043 Ecology 3
- PCB3063 Genetics 3
- PCB3063 Genetics Lab 1
- Total Term Credit Hours 16

First Year Term II
- PCB3023 Molecular and Cellular Biology 3
- SWS3022 Introduction to Soil Science 3
- GIS Course* 3
- GIS Course* 3
- Elective** 3
- Total Term Credit Hours 15

Second Year Term I
- GLY4746 Global Environmental Change 3
- PCB4454C Biostatistics with Lab 4
- ALS4163 Challenges in Plant Resource Protection 3
- PLP3002C Fundamentals of Plant Pathology 3
- Total Term Credit Hours 13
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Second Year Term II
BSC4911  Senior Research  or
BSC4948  Senior Internship  3
Electives**  13

Total Term Credit Hours  16

Total Upper Division Credit Hours  60

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.