Environmental Biology

2016-2017 Academic Year

School of Science and Engineering

400 Boggs
Phone: (504) 865-5191
Fax: (504) 862-8706
Web: http://tulane.edu/sse/eebio/

This information was prepared by Tulane Academic Advising Center.
GENERAL REQUIREMENTS FOR STUDENTS MATRICULATING IN ACADEMIC YEAR: 2016-2017

**DEGREE:** BACHELOR OF SCIENCE

**MAJOR:** ENVIRONMENTAL BIOLOGY

**MINIMUM CUMULATIVE GRADE POINT AVERAGE:** 2.0

**MINIMUM MAJOR GRADE POINT AVERAGE:** 2.0

**TOTAL CREDITS:** 120

**EBIO CORE COURSES**
- CELL 1010
- EBIO 1010/1015
- EBIO 2020
- EBIO 2070
- EBIO 2040 (spring only)
- EBIO 2050 (spring only)
- EBIO 3040/3045 (fall only)
- EBIO 3080 (spring only)
- EBIO 3040/3045
- EBIO 3080
- EBIO 2040
- EBIO 2050
- EBIO 2070
- EBIO 3040
- EBIO 3080

**Chemistry Required Courses**
- CHEM 1070, 1075
- CHEM 1080, 1085
- CHEM 2500 or CHEM 2410/2415

**EBIO ELECTIVES ABOVE 1000 LEVEL**
- Lab/Field Course #1
- Lab/Field Course #2
- Lecture or Lab

**Capstone Experience**
- EBIO 5970 OR 5971
- NDA

**Minor:** Contact Department

<table>
<thead>
<tr>
<th>Area</th>
<th>Credits</th>
<th>To Be Selected From</th>
<th>Area</th>
<th>Credits</th>
<th>To Be Selected From</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Writing</td>
<td>4</td>
<td>ENGL 1010 or Equivalent</td>
<td>Public Service – 1st Tier</td>
<td></td>
<td>1000-3000-Level</td>
</tr>
<tr>
<td>TIDES – 1 course in fall semester</td>
<td>1-1.5</td>
<td></td>
<td>2nd Tier</td>
<td></td>
<td>3000-Level or above</td>
</tr>
<tr>
<td>Foreign Language – Competence at 1020-Level (1-2 courses depending on placement and language)</td>
<td>3-8</td>
<td>Arabic, Chinese, French, German, Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, or Spanish</td>
<td>Western Traditions</td>
<td>3</td>
<td>Refer to Undergraduate Core Curriculum Guide</td>
</tr>
<tr>
<td>Cultural Knowledge – 1 Humanities</td>
<td>6</td>
<td>Courses designated Humanities and Fine Arts</td>
<td>Outside Western Traditions Or Comparative Cultures Intl. Perspectives</td>
<td>3</td>
<td>Refer to Undergraduate Core Curriculum Guide</td>
</tr>
<tr>
<td>Cultural Knowledge – 1 Fine Arts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultural Knowledge – Social Science</td>
<td>6</td>
<td>Courses designated Social Science</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantitative Reasoning</td>
<td>8</td>
<td>MATH 1210 or equivalent and 1220 or 1230</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scientific Inquiry – 1 Lab Science</td>
<td>4-8</td>
<td>Courses from departments designated Science and Math</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scientific Inquiry – 1 Science or Math</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scientific Inquiry – 1 Math courses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Writing Intensive</td>
<td>4</td>
<td>Consult Major</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Service – 1st Tier</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Traditions</td>
<td>3</td>
<td>Refer to Undergraduate Core Curriculum Guide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outside Western Traditions Or Comparative Cultures Intl. Perspectives</td>
<td>3</td>
<td>Refer to Undergraduate Core Curriculum Guide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**The Degree Plan and other information provided in this booklet serve only as advising tools. Newcomb-Tulane College advisors will help advise you on the core-curriculum, decide on a major, and consult on any academic success issues.**

- Your major advisors will advise you on major requirements.
- Students with multiple majors will have more than one advisor and will need to consult with the appropriate advisor.
- Minors are not assigned an advisor, but a faculty member in the department is designated to advise minors.

- Become familiar with your major! By declaring early, you have access to a major advisor, are able to enroll in “majors only” classes, and are included in listserves that allow you to receive information about events, internships, and other opportunities.
- Pre-med and Pre-law students should also consult with one of the Pre-Professional advisors.
**What Can I Do with a Major in...**

**Environmental Biology**

**GENERAL INFORMATION**
- Gaining relevant work experience through internships, part-time jobs, or volunteer positions is critical.
- A bachelor’s degree will qualify you for work as a laboratory assistant, technician, technologist or research assistant in education, industry, government, museums and parks.
- Develop strong computer, mathematics and communication skills.
- Join professional organizations to stay abreast of current issues in your field(s) of interest and to develop networking contacts.
- Read scientific journals in your areas of interest.
- If you are interested in attending graduate or professional school, become familiar with admission requirements and maintain a high GPA.
- Attend seminars, conferences and workshops sponsored by professional associations or public interest groups.

**SKILLS**
- Ability to operate scientific equipment
- Good interpersonal, written, and verbal communication skills
- Attention to detail
- Critical thinking and problem solving skills
- Gathering information, conducting research and laboratory experimentation
- Analyzing and evaluating data, writing and preparing reports
- Capacity to calculate, compute and apply formulas
- Ability to develop ideas and problem-solve
- Ability to coordinate work with others
- Ability to conduct research and organize
- Capacity to interpret technical/scientific data
- Able to learn laboratory procedures rapidly

<table>
<thead>
<tr>
<th>CAREER AREAS</th>
<th>EMPLOYERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLANNING</td>
<td></td>
</tr>
<tr>
<td>Air Quality</td>
<td>Aviation</td>
</tr>
<tr>
<td>Building/Zoning</td>
<td>Land-Use</td>
</tr>
<tr>
<td>Consulting</td>
<td>Recreation</td>
</tr>
<tr>
<td>Transportation</td>
<td>Water Resources</td>
</tr>
<tr>
<td>Hazardous or Solid Waste</td>
<td>Management</td>
</tr>
<tr>
<td>Air or Water Quality Management</td>
<td>Market research companies</td>
</tr>
<tr>
<td>ENVIRONMENTAL EDUCATION OR COMMUNICATION</td>
<td>Colleges/universities</td>
</tr>
<tr>
<td>Teacher/Professor</td>
<td>Journalism</td>
</tr>
<tr>
<td>Tourism</td>
<td>Lobbyist</td>
</tr>
<tr>
<td>Law</td>
<td>Public and private schools (K-12)</td>
</tr>
<tr>
<td>SOLID OR HAZARDOUS WASTE MANAGEMENT</td>
<td>Private waste management firms</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Hydrology</td>
</tr>
<tr>
<td>Logistics</td>
<td>Recycling</td>
</tr>
<tr>
<td>Transportation</td>
<td>Hydrogeology</td>
</tr>
<tr>
<td>Quality Control</td>
<td>Risk Assessment</td>
</tr>
<tr>
<td>Industrial Hygiene</td>
<td>Law</td>
</tr>
<tr>
<td>Biology</td>
<td>Geology</td>
</tr>
<tr>
<td>Public and Environmental Health</td>
<td>Nonprofit groups/organizations</td>
</tr>
<tr>
<td>Environmental or Chemical Engineering</td>
<td>Treatment plants</td>
</tr>
<tr>
<td>AIR OR WATER QUALITY MANAGEMENT</td>
<td>Federal, state, regional, and local government</td>
</tr>
<tr>
<td>Analytical Chemistry</td>
<td>Environmental Quality</td>
</tr>
<tr>
<td>Meteorology</td>
<td>Risk Assessment</td>
</tr>
<tr>
<td>Safety &amp; Health Management</td>
<td>Toxicology</td>
</tr>
<tr>
<td>Project Development</td>
<td>Aquatic Ecology</td>
</tr>
<tr>
<td>Biology</td>
<td>Hydrogeology</td>
</tr>
<tr>
<td>Civil/Environmental Engineering</td>
<td>Hydrology</td>
</tr>
<tr>
<td>Drinking Water Treatment/Supply</td>
<td>Wastewater Treatment</td>
</tr>
<tr>
<td>Groundwater Protection</td>
<td>Estuary Management</td>
</tr>
<tr>
<td>Surface Water Management</td>
<td>Wetlands Protection</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td></td>
</tr>
<tr>
<td>Law</td>
<td></td>
</tr>
</tbody>
</table>

If you think you might be interested in this major, but you are not absolutely sure, an exploratory advisor can help you explore major and career options, please go to:

[Explore.Tulane.edu](http://Explore.Tulane.edu)

If you are interested in information about Law Professions, please go to:

[LawProfessions.Tulane.edu](http://LawProfessions.Tulane.edu)

If you are interested in information about Health Professions, please go to:

[HealthProfessions.Tulane.edu](http://HealthProfessions.Tulane.edu)
# What Can I Do with a Major in... Environmental Biology

## Land and Water Conservation
- Biology
- Planning
- Geographic Information Systems
- Preserve Management
- Natural Resource Management
- Ecology
- Law
- Soil Conservation
- Nonprofit groups/organizations
- Federal, state, regional, and local government
- US Department of Agriculture
- Bureau of Land Management
- National & state parks

## Fishery & Wildlife Management
- Aquaculture
- Data Management
- Hatchery Management
- Ecology
- Research
- Botany
- Biology
- Marine Biology
- Education
- Planning
- Federal, state, regional, and local government
- Bureau of Land Management
- National & state parks

## Parks and Outdoor Recreation
- Law Enforcement
- Research
- Site Operations and Maintenance
- Direct Mail Merchandising
- Natural Resource Management
- Administration and Management
- Recreation Planning
- Ecotourism
- Federal, state, regional, and local government
- Bureau of Land Management
- National & state parks

## Forestry
- Consulting
- Hydrology
- Research
- Urban Forestry
- Natural Resource Management
- Entomology
- Planning
- International Forestry
- Federal, state, regional, and local government
- Bureau of Land Management
- National & state parks

## Professional Organizations
- Air & Waste Management Association
  www.awma.org

- Ecological Society of America
  www.esa.org

- The Environmental Careers Organization
  www.eco.org

- Marine Conservation Biology Institute
  www.mcbi.org

- AIBS: American Institute of Biological Sciences
  www.aibs.org

- AAAS: American Association for the Advancement of Science
  www.aaas.org

- National Academy of Science
  www.nas.edu

- PROFESSIONAL ORGANIZATIONS

- RELATED WEBSITES & ASSOCIATIONS

  Environmental Career Opportunities
  www.ecojobs.com

  Environmental Careers World
  www.environmental-jobs.com

  E Jobs: Environmental Jobs and Careers
  www.ejobs.org

  The Environmental Careers Organization
  www.eco.org

  Science Jobs
  www.sciencejobs.com

  USA Jobs
  www.usajobs.gov

  Sustainable Business: Green Dream Jobs
  www.sustainablebusiness.com/jobs

  Nature Career Resources
  www.nature.com

  Careers in Science and Engineering
  www.nap.edu/readingroom/books/careers

  Guide to Graduate Education in Science, Engineering and Public Policy
  www.aaas.org/spp/sepp/index.htm

  ScienceCareers.org
  http://sciencecareers.scientificamerican.com

For Jobs, internships, resume assistance, interviews, and self-assessments, please go to: HireTulaneGrads.com

Tulane University is committed to your academic success and provide several services to assist.