

Environmental Biology

2017-2018
Academic Year



School of Science and Engineering

400 Boggs

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GENERAL REQUIREMENTS FOR STUDENTS MATRICULATING IN ACADEMIC YEAR: 2017-2018

DEGREE: **BACHELOR OF SCIENCE**

TOTAL CREDITS: 120

MAJOR: ENVIRONMENTAL BIOLOGY

MINIMUM CUMULATIVE GRADE POINT AVERAGE: 2.0

MINIMUM MAJOR GRADE POINT AVERAGE: 2.0

| CORE CURRICULUM REQUIREMENTS | | | MAJOR REQUIREMENTS | 61-66 |
|--|---------|---|--|--|
| Area | Credits | To Be Selected From | | |
| First Year Writing | 4 | ENGL 1010 or Equivalent | CORE COURSES | |
| TIDES – 1 course in fall semester | 1-1.5 | | CELL 1010 | EBIO 1010/1015 EBIO 2020 EBIO 2070 EBIO 2040 EBIO 2050 EBIO 3040/3045 EBIO 3080 |
| Foreign Language – Competence at 1020-Level (1-2 courses depending on placement and language) | 3-8 | Arabic, Chinese, French, German, Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, or Spanish | ELECTIVE COURSES | |
| Cultural Knowledge – 1 Humanities 1 Fine Arts | 6 | Courses designated Humanities and Fine Arts | Three elective courses in the department of ecology and evolutionary biology must include two laboratory-field courses. | |
| Cultural Knowledge – Social Science | 6 | Courses designated Social Science | ONE ELECTIVE COURSE FROM THE FOLLOWING: | |
| Quantitative Reasoning 2 Math courses | 8 | MATH 1210 or equivalent and 1220 or 1230 | EBIO 4660 EBIO 4910 EBIO 4920 EBIO 4950 EBIO 4860 EBIO H4990 EBIO H5000 | |
| Scientific Inquiry – 1 Lab Science 1 Science or Math | 4-8 | Courses from departments designated Science and Math | Chemistry Required Courses | |
| Writing Intensive | 4 | Consult Major | CHEM 1070, 1075 CHEM 1080, 1085 CHEM 2500 or CHEM 2410/2415 | |
| Public Service – 1 st Tier 2 nd Tier | | 1000-3000-Level 3000-Level or above | Capstone Experience | |
| Western Traditions | 3 | Refer to Undergraduate Core Curriculum Guide | EBIO 5970 OR 5971 | |
| Outside Western Traditions Or Comparative Cultures Intl. Perspectives | 3 | Refer to Undergraduate Core Curriculum Guide | NDA | |
| Minor: Contact Department | | | | |

- *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, you are able to enroll in "majors only" classes, and you are included in list serves 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

CAREER AREAS

PLANNING

- Air Quality
- Building/Zoning
- Consulting
- Transportation
- Hazardous or Solid Waste
- Air or Water Quality Management
- Aviation
- Land-Use
- Recreation
- Water Resources
- Management

ENVIRONMENTAL EDUCATION OR COMMUNICATION

- Teacher/Professor
- Tourism
- Law
- Journalism
- Lobbyist

SOLID OR HAZARDOUS WASTE MANAGEMENT

- Chemistry
- Logistics
- Transportation
- Quality Control
- Industrial Hygiene
- Biology
- Public and Environmental Health
- Environmental or Chemical Engineering
- Hydrology
- Recycling
- Hydrogeology
- Risk Assessment
- Law
- Geology

AIR OR WATER QUALITY MANAGEMENT

- Analytical Chemistry
- Meteorology
- Safety & Health Management
- Project Development
- Biology
- Civil/Environmental Engineering
- Drinking Water Treatment/Supply
- Groundwater Protection
- Surface Water Management
- Industrial Engineering
- Law
- Environmental Quality
- Risk Assessment
- Toxicology
- Aquatic Ecology
- Hydrogeology
- Hydrology
- Wastewater Treatment
- Estuary Management
- Wetlands Protection

EMPLOYERS

- Market research companies
- Colleges/universities
- Two-year community colleges
- Public and private schools (K-12)

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- Private waste management firms
- Hazardous waste management firms
- Federal, state, regional, and local government

- Nonprofit groups/organizations
- Treatment plants
- Federal, state, regional, and local government
- US Department of Agriculture
- National & state parks

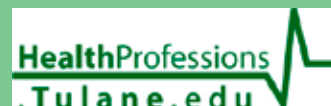
If you think you might be interested in this major, but you are not absolutely sure, an exploratory advisor can help you explore major and career options, please go to:



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



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



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

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.sciencemag.org>

*For Jobs, internships, resume assistance,
interviews, and self-assessments, please
go to:*



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