

Environmental Earth Science

2017-2018
Academic Year



School of Science and Engineering

101 Blessey Hall

Phone: (504) 865-5198

Fax: (504) 865-5199

Email: flowers@tulane.edu

Web: tulane.edu/sse/eens/

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

DEGREE: **BACHELOR OF SCIENCE**

TOTAL CREDITS: 120

MAJOR: ENVIRONMENTAL EARTH SCIENCE

MINIMUM CUMULATIVE GRADE POINT AVERAGE: 2.0

MINIMUM MAJOR GRADE POINT AVERAGE: 2.0

CORE CURRICULUM REQUIREMENTS			MAJOR REQUIREMENTS
Area	Credits	To Be Selected From	
First Year Writing	4	ENGL 1010 or Equivalent	I. Courses Required Outside EENS (seven courses) EBIO 1010 MATH 1210 MATH 1220 CHEM 1070/1075 CHEM 1080/1085 CHEM 2500 PHYS 1310/1311 PHYS 1210/1311 II. Foundational Courses (three courses) EENS 1110/1115 EENS 1300/1305 EENS 2020 III. Core Courses (five courses) EENS 2070 EENS 2090 (C- or better required for major) EENS 3150/3151 EENS 4020 EENS 4300 IV. Electives (five courses) Any five EENS courses at or above 2000-level with a minimum of three electives at the 3000-4000 level. COLQ 4120 – The Grand Canyon – is also an approved elective.
TIDES – 1 course in fall semester	1-1.5		
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	
Cultural Knowledge – 1 Humanities 1 Fine Arts	6	Courses designated Humanities and Fine Arts	
Cultural Knowledge – Social Science	6	Courses designated Social Science	
Quantitative Reasoning 2 Math courses	8	MATH 1210 or equivalent and 1220	
Scientific Inquiry – 1 Lab Science 1 Science or Math	4-8	Courses from departments designated Science and Math	
Writing Intensive Public Service – First Tier Second Tier	4	Consult Major 1000-3000-Level 3000-Level or above	
Western Traditions	3	Refer to Undergraduate Core Curriculum Guide	
Outside Western Traditions Or Comparative Cultures Intl. Perspectives	3	Refer to Undergraduate Core Curriculum Guide	

Minor requirements for Environmental Earth Science:

I. Foundational course

- EENS 1300/1305-Earth as a Living Planet (lecture and lab)

II. Two courses from:

- EENS 2070 – Weather & Climate
- EENS 2080 – Severe Weather
- EENS 2090 – Surface Water Hydrology
- EENS 2230 – Oceanography

III. Electives (three courses)

Any three EENS courses at or above the 3000 level. COLQ 4120 - The Grand Canyon - is also an approved elective.

- *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 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 Earth Science

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

EMPLOYERS

- Architectural firms
- Nonprofit groups/organizations
- Federal, state, regional, and local government
- National & state parks
- Corporations
- Consulting firms
- Real estate development companies
- Law firms

ENVIRONMENTAL EDUCATION OR COMMUNICATION

- Teacher/Professor
- Tourism
- Law
- Journalism
- Lobbyist
- Market research companies
- Colleges/universities
- Two-year community colleges
- Public and private schools (K-12)

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

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

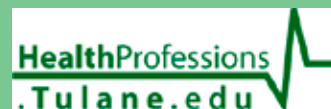
If you think you might be interested in this major, but you are not absolutely sure, an exploratory advisor can help you explore major and career options, please go to:



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 Earth Science

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

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

National Association for Environmental Management
www.naem.org

National Association for Environmental Professionals
www.naep.org

National Registry of Environmental Professionals
www.nrep.org

American Society of Landscape Architects
www.asla.org

Coalition to Restore Coastal Louisiana
www.crcl.org

Soil Science Society of America
www.soils.org

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.mcbl.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

US Department of Energy: National Environmental Policy Act
www.eh.doe.gov/nepa

Environmental Protection Agency
www.epa.gov

Environmental Career Opportunities
www.ecojobs.com

Environmental Careers World
www.environmental-jobs.com

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