All over the world, societies have become increasingly concerned about the safety of the air, food and water. Current weather-related events have sparked an interest in understanding the Earth’s climate and the human factors that play a role in global climate change. This increased public awareness of the perils facing our natural resources and open spaces has spurred a demand for environmental scientists and specialists.

Saint Joseph’s environmental science major offers you a strong foundation in the natural sciences, which is the basis for understanding these complex issues. You will also learn about the history and study the literature of the movement, as well as the politics that affect it. Your coursework begins with the basic principles of biology, chemistry, physics and mathematics, and then moves on to a series of upper level courses in three broad areas – environmental policy, biological sciences or physical sciences. This allows you to design your own unique course of study.

A distinctive benefit of the program is the opportunity to engage in faculty-mentored research during the academic year and the summer, in areas such as plant biology, ecology, animal behavior, environmental chemistry, geochemistry and environmental history and policy. A semester-long internship is also required as part of the major. Majors and minors participate in the environmental student group, which organizes hikes, field trips, lectures, plants trees on campus, helps with campus recycling programs, and is active in coordinating campus Earth Day activities.

Recent graduates of the program have pursued careers as consultants, field scientists, in education and government service, or have continued their education in graduate school.

LEARN MORE ABOUT THE ENVIRONMENTAL SCIENCE MAJOR:

- Visit the Environmental Science Department’s website: [www.sju.edu/academics/cas/envsci](http://www.sju.edu/academics/cas/envsci)
- Visit the College of Arts and Sciences Advising Support Center, located in Barbelin 122
- Contact the Environmental Science Department to schedule a meeting with a faculty member by e-mailing jfingeru@sju.edu
- Speak with current students in the major
- Schedule an appointment with the Career Development Center (610-660-3100)

WHAT CAN I DO WITH A MAJOR IN ENVIRONMENTAL SCIENCE?
Whatever you put your mind to! You can learn much more at [www.onetonline.org](http://www.onetonline.org). Following are descriptions of just a few of the careers you might pursue:

**Environmental Economist:** Assesses and quantifies the benefits of environmental alternatives, such as use of renewable energy resources.
**Environmental Engineer:** Designs, plans, or performs engineering duties in the prevention, control, and remediation of environmental health hazards utilizing various engineering disciplines. Work may include waste treatment, site remediation, or pollution control technology.

**Environmental Restoration Planner:** Collaborates with field and biology staff to oversee the implementation of restoration projects and to develop new products. Processes and synthesizes complex scientific data into practical strategies for restoration, monitoring or management.

**Natural Science Manager:** Plans, directs, or coordinates activities in such fields as life sciences, physical sciences, mathematics, statistics, and research and development in these fields.

**Soil and Plant Scientist:** Conducts research in breeding, physiology, production, yield, and management of crops and agricultural plants, their growth in soils, and control of pests; or studies the chemical, physical, biological, and mineralogical composition of soils as they relate to plant or crop growth. May classify and map soils and investigate effects of alternative practices on soil and crop productivity.

**HOW CAN I ENGAGE MY INTEREST IN ENVIRONMENTAL SCIENCE OUTSIDE THE CLASSROOM?**

There are so many opportunities to get involved at Saint Joseph’s University – and to develop experience in your major while doing so! Here are just a few:

- National Association of Environmental Professionals
- Sustainability Club
- Sigma Xi
- Summer Scholars

**OUTCOMES – A CLOSER LOOK AT SJU GRADUATES WITH DEGREES IN ENVIRONMENTAL SCIENCE:**

Many of our graduates have started out their careers in a variety of industries, including science and education.

Here is a sampling of positions our graduates have accepted:

- Activist Network Coordinator
- Assistant Project Manager
- Assistant Scientist
- Environmental Educator
- Environmental Chemist

- Environmental Scientist
- Field Organizer
- Flight Commander
- Human Resources Development
- Specialist

- Outreach Educator
- Project Manager
- Research Lab Technician
- Sr. Laboratory Technician
- Teacher

**Organizations that have hired our graduates include:**

- Aquaterra Technologies
- Committee for a Responsible Federal Budget
- Envirotech Research, Inc.
- Food & Water Watch
- GlaxoSmithKline
- Green Corps
- Johns Hopkins School of Medicine
- NorthEastern Analytical Corp
- NYC Board of Education
- The Philadelphia Zoo
- QC Laboratories

- Tetra Tech EM, Inc.
- The Wildlife Center of Virginia
- University of Pennsylvania School of Medicine
- US Air Force
- US Department of Interior, OSEOD

**Some of the graduate schools in which our students have continued their education, in programs including Education and the Physical/Life Sciences:**

- Clark University
- New Jersey Institute of Technology
- Saint Joseph’s University
- University of Maine
FURTHER ASSISTANCE WITH YOUR MAJOR AND CAREER OPTIONS
The Career Development Center can help you with the process of choosing a major and exploring your career options. For assistance, please call 610-660-3100 to schedule an appointment to meet with a Career Counselor.

GETTING THE JOB – SAMPLE ENVIRONMENTAL SCIENCE RESUME - SEE BELOW
John Neumann
123 Job Search Avenue, Philadelphia, PA 12345 • firstname.lastname@gmail.com • (123) 456-7890

EDUCATION
Saint Joseph's University
Bachelor of Science in Environmental Science
- GPA: 3.3/4.0
- Dean's List Fall 2011-Spring 2014

INTERNSHIP EXPERIENCE
The River Project
Marine Science Education Intern
- Participated in environmental science research projects under the supervision of The River Project staff.
- Collaborated with professional researchers who are recognized experts in the field of environmental science.
- Assisted with field trip programs and educational activities.
- Gained knowledge on relevant issues within the field of marine science and acquired skills to speak and educate others on those topics.

Environmental and Energy Study Institute
Intern to the Executive Director
- Researched, wrote, and edited articles and web content on a broad range of energy, environment, and policy issues.
- Explored creative ways to engage and expand EESI's network including updating social media policy.
- Researched congressional information: bills, current issues, legislation, and policy.
- Attended congressional hearings or other events and briefed staff on material covered.

World Resources Institute
Sustainability Initiative Intern
- Conducted research on socially responsible investment opportunities.
- Researched green purchasing standards to help guide WRI’s future vendor decisions.
- Assisted in the implementation of a project to engage partners and suppliers and collect data.
- Supported the communication of the initiative through website content development and the development of blogs.
- Provided general administrative support as needed.

LEADERSHIP EXPERIENCE
Sustainability Club, Saint Joseph's University
President
- Plan bi-weekly meetings for a club of 30 students.
- Implemented a new recruitment strategy which increased club membership by 50%.
- Organize a fundraiser to support club’s professional development committee.
- Attend lectures on relevant topics in sustainability both on and off campus.

Office of Residence Life, Saint Joseph's University
Resident Assistant
- Provide support to 60 first year students during their transition to college.
- Use results of surveys and feedback sessions to plan relevant and interesting programs.
- Collaborate with 2 other freshmen RAs to provide larger scale programs for 120 freshmen.
- Market events happening on campus to provide students with alternative programming.

PROFESSIONAL MEMBERSHIPS
- National Association of Environmental Professionals