



UNIVERSITY of
SAINT FRANCIS™

ENVIRONMENTAL SCIENCE PROGRAM

Associate of Science Degree, Bachelor of Science Degree

University Profile

The University of Saint Francis was founded in 1890 and has a rich heritage of offering quality education. Rooted in the Catholic and Franciscan traditions of Faith and Reason, the University of Saint Francis engages a diverse community in learning, leadership and service.

The campus has 108 acres of rolling lawns and trees with 19 buildings and four residence halls that surround beautiful Mirror Lake.

Personal attention to students is what makes a USF education so meaningful and enriching to its approximately 2,000 students.

Environmental Program

The Environmental Science Program at the University of Saint Francis began in the early 1990s and has an unmatched placement history of its graduates. To date **every graduate** has either found employment in their field of choice or been accepted into graduate school within two months of graduation. Alumni are employed in a variety of occupations from education and nature interpretation to industrial hygiene and environmental remediation. They are employed in both the private and governmental sectors. The faculty of the program represents the diverse fields found within the environmental science realm. These include Biology, Chemistry, Geology, and Physics. Majors typically specialize in one of the following areas:

- A business-oriented focus for those wishing to pursue careers in property, fisheries or game, or forestry management.
- An educational focus for those wishing careers in nature interpretation as well as informal or formal educators.
- A technically-oriented focus for those entering fields that are heavy in laboratory analysis or remediation.

At the heart of the program for all the tracts are the concepts: *learn by doing and learn in the heart of nature, whenever possible.*

Two aspects of the program that make it unique are:

- A 200-hour minimum internship program where students work with professionals in a professional environment, often with potential employers.
- An impressive field study component to nearly all courses, as well as a specific Field Studies Program which consists of courses in these three primary geographic regions:
 - **Bahamas Field Studies and Field Research.** Programs based at Forfar Field Station on Andros Island, Bahamas; home to the world's third largest barrier reef complex, the new Andros Land/Sea National Biological Reserve, and many folk tales of the dreaded pirate, Captain Henry Morgan.
 - **Southern Appalachian Field Studies** including backpacking in the Citico/Slickrock Wilderness Area, Smoky Mountains, Fontana Dam, and rafting down the Nantahala River.
 - **Wilderness Studies in the Southwestern United States** including backpacking in the Chiricahua and White Mountains of Arizona and multi-night stays in the Grand Canyon with visits to Sunset Crater, Wapatki Ruins, Walnut Canyon Cliff Dwellings, Painted Desert, Petrified Forest, Saguaro National Monument, and the Sonoran Desert Museum.

More than 95 percent of all Environmental Science graduates have participated in one of these programs and most have done more, often all of them! We value outdoor field experience. There is so much more to tell and so little room on a flyer, but if this sounds like you, find out more by visiting our website at www.sf.edu/biology, calling us at 800-729-4732, or visiting our beautiful campus. We are sure that you will feel right at home.

Science Symposium

Twice a year for over 30 years, the University of Saint Francis has offered a science symposium for qualified high school students to study cutting edge topics in the fields of math and science. This opportunity has cumulative scholarship potential for the student who chooses to matriculate to USF and major in the sciences. Past topics have included: Population Dynamics, Aquatic Ecosystems and Toxic Waste.

Science Seminars

All Biology, Pre-Professional, Clinical Laboratory Science (Medical Technology), Chemistry, Early Entry Physician Assistant, Environmental Science, and Secondary Education Biology/Chemistry/General Science majors attend Seminar once a week for every semester they are on campus. Seminars consist of outside speakers such as MDs, Veterinarians, Clinical Laboratory Scientists (Medical Technologists), Physician Assistants, Osteopathic Physicians, Pharmacists, Environmental Scientists, Research Biologists, Research Chemists, and others. Faculty members explain their research programs and offer students opportunities to participate directly in these projects or to propose their own research projects. Upper level students make presentations about research they have done or internships they have completed. There is no tuition charge for Seminar except for the one semester students are required to make a presentation. Seminar provides an opportunity for all science majors to interact and get to know the faculty who also attend Seminar each week.

Sample Curriculum for Environmental Science

Program Hours (128 hours minimum)

Freshman Year

Fall (16 hours)

Principles of Biology I	4
Introduction to Environmental	3
Math (by placement)	3
iConnect	3
English Composition	3
Seminar	0

Spring (16-17 hours)

Principles of Biology II	4
Major Directed Science Elective	3-4
Fund. of Public Communication	3
Soc. Responsibility Gen Ed Requirement	3
Religion Gen Ed Requirement	3
Seminar	0

Sophomore Year

Fall (16-17 hours)

Principles of Chemistry I	4
Major Directed Science Elective	3-4
Statistics	3
Literature Gen Ed Requirement	3
Social Science Gen Ed Requirement	3
Seminar	0

Spring (16 hours)

Principles of Chemistry II	4
Geology	4
Economics of Social Issues or Elective	3
Phys Ed Gen Ed Requirement	2
Intro to Accounting or Elective	3
Seminar	0

Junior Year

Fall (16 hours)

Environmental Regulations	3
Organic Chemistry I	4
Theology Gen Ed Requirement	3
History Gen Ed Requirement	3
Principles of Management or Elective	3
Seminar	0

Spring (15 hours)

Surface/Subsurface	3
Environmental Chemistry	3
Field Studies	3
Phil/Ethics Gen Ed Requirement	3
Elective	3
Seminar	0

Senior Year

Fall (16 hours)

Ecology	4
American Environmental History	3
Intro to Marketing or Elective	3
Internship (capstone course)	3
Elective	3
Seminar	0

Spring (15-16 hours)

Advanced Environmental Science	3
Major Directed Elective	3
Fine Arts Gen Ed Requirement	2-3
Elective	3
Elective	3
Seminar	1

Financial Aid

Financial aid is available in the form of scholarships, grants, loans, and work study. Over 95 percent of undergraduate students receive some form of financial assistance; most receive more than one type of aid. Early estimates packages are available online at www.sf.edu to any student who has been admitted to the university.

All students are encouraged to complete the Free Application for Federal Aid (FAFSA). Priority deadline is no later than March 10.

For More Information

Contact the Office of Admissions at 260-434-3279 or 1-800-729-4732 or visit our website at www.sf.edu/biology.