

Additional Information

SUNY-ESF

The State University of New York College of Environmental Science and Forestry (SUNY-ESF) in Syracuse is one of only nine doctoral-granting institutions in the sixty-four campus State University of New York (SUNY) system. ESF is an urban campus with eight regional campuses and field stations distributed across 25,000 acres in Central and Northern New York, ranging from the Appalachian highlands and Great Lakes basin to the St. Lawrence River and the Adirondack Mountains. As a result, ESF is one of the largest campuses in the United States dedicated to education, research and demonstration in environmental science, engineering and technology, policy and management, and planning and design. ESF is the SUNY Sustainable and Renewable Energy Center.

ESF has earned a total of 30 award-level rankings from College Factual, an online college guidance service. Several of these rankings highlight overall quality and affordability, along with popular majors and the number of students in them. In 2015 the Princeton Review gave ESF high marks for great academics and career prep. It was ranked #10 for "Return-On-Education". ESF also earned a place among the top universities in America for 2015, as ranked by US News & World Report. It was recognized as one of the best college values in the nation, ranking #45 on the "Great Schools, Great Prices" list. ESF is the only SUNY institution on the Top 30 Public National Universities list and the top-ranked SUNY school on the Best National Universities list.

ESF in the High School classes have the opportunity for field trips to ESF's main campus in Syracuse, NY and to our regional campuses in the Adirondacks and field stations across NY State. In-school presentations and demonstrations by ESF faculty, staff and students are also available. Students participating in the Global Environment class are eligible to participate in the Environmental Summit, held each Spring at SUNY-ESF. At the Summit students can present their individual or group research in an oral or poster presentation.

Teacher and School Benefits

- Students experience college-level work while still in high school.
- Students explore diverse interests and career opportunities in STEM fields as well as management, policy, design and law.
- Qualified teachers receive adjunct faculty status at SUNY-ESF.
- Schools develop a partnership with an institution of higher education.
- Teachers receive training and development to support their instruction.
- On-line access to ESF Library resources.



SUNY - ESF

Dr. Rick Beal, Assistant Dean, K-12 STEM
Education and Director of ESF in the High School

SUNY-ESF
235 Gateway Center
1 Forestry Drive
Syracuse, NY 13210

Phone: 315-470-6817
Fax: 315-470-6890
E-mail: rebeal@esf.edu

DEVELOPING STUDENTS
AND CITIZENS

SUNY-ESF ESF in the High School



[www.esf.edu/
outreach](http://www.esf.edu/outreach)

SUNY - ESF

ESF in the High School Developing Students and Citizens

Environmental problems make headlines every day.

Understanding the complex scientific and social issues behind these headlines, coupled with the ability to critically solve problems, is a requirement in the work place today. This need not only applies to those individuals in the STEM fields but to everyone across the education spectrum. Everyday people are being called upon to help shape their environmental future. The ESF in the High School and ESF Science Corps programs can help your students prepare to be leaders in the stewardship of both our natural and designed environments and be the effective citizens required for the 21st century.

ESF in the High School is a high school dual enrollment college credit program that enables qualified students to:

1. Earn college credit through special courses taught while in high school.
2. Experience the challenge of doing college level course work.
3. Understand the complex scientific and social issues behind environmental problems.
4. Learn and explore diverse interests and career opportunities in environmental science, engineering, management, and design along with related areas such as law, communications, technology and medicine.

Courses Offered, some examples

Global Environment 3 credits (EFB 120): Students explore the linkages between local, rural, urban and suburban communities and the larger global ecosystem. Key environmental science themes and critical thinking skills form the basis for instructional activities.

Writing and the Environment 3 credits (EWP190): An introduction to writing and reading on the college level, using materials with an environment focus.

Ecology of the Economic Process 3 credits (ESF122): The ecology of the economic process-an interdisciplinary biophysical world approach to studying economies as part of the larger world.

Introduction to Renewable Energy 2 credits (FCH496): Considers the question of why we need to start thinking of alternative forms of energy to supply our increasing needs as a modern society. Includes the science behind several technologies.

General Biology 8 credits (EFB102, 103, 104, 105): Lecture and lab. Organismal biology and ecology and cell biology and genetics.

Paper & Biological Systems Engineering 3 credits (PSE296): Chemistry curricula from a biological/environmental perspective. Utilizes natural systems to solve problems and create useful products.

Research Problems 1 credit (EFB498): Students can conduct an independent research project, write a report, and present the information via poster, presentation or other means.

Prerequisites

Global Environment (EFB120): students must have successfully completed NYS Regents Earth Science, NYS Regents Living Environment, and have successfully completed or are enrolled in NYS Regents Chemistry.

Continued on next panel..

Writing and Environment (EWP190): students must have passed the English 11 NYS Regents with a minimum grade of "80".

Biology (EFB 101-104): students must have successfully completed NYS Regents Chemistry and NYS Regents Living Environment.

Student Cost

The current cost for NYS residents, undergraduate, part-time is \$810 for a 3 credit course. However, special ESF Scholarships reduce the cost per 3 credit course to \$200. Similar reductions are in effect for 2 and 1 credit courses. Students who participate in the Federal Free/Reduced lunch program may receive additional scholarship monies to reduce 3 credit course fees to \$75. Some school districts cover all tuition fees due to grant money or endowments.

Credits and Grades

Credits and grades earned are recorded as part of each student's permanent record which can be transferred to other colleges and universities throughout the United States. Official transcripts are available through the ESF Registrar's Office. While acceptance at other colleges is not and cannot be guaranteed, credits earned with grades of C or higher typically can be applied to undergraduate degree requirements at these institutions.

ESF College Acceptance

Freshman admission is highly selective, with the College normally admitting approximately 45% of high school seniors who apply. The College's Admission Committee views high grades earned in an ESF in the High School course as an indication of student's ability to succeed in ESF's rigorous academic programs.