Improve Your World
State University of New York
College of Environmental Science and Forestry
Syracuse, New York
Founded in 1911, the State University of New York College of Environmental Science and Forestry (ESF) is the nation’s oldest and most respected college dedicated solely to the study of the environment, developing renewable technologies and building a sustainable future.

The College’s long-standing partnership with Syracuse University provides ESF students with the opportunity to take classes at SU, use library and computing facilities, join student clubs and eat in SU dining halls.

ESF offers 25 undergraduate and 26 graduate degree programs to choose from, including bachelor’s, master’s and doctoral (Ph.D.) programs in the sciences, engineering, forestry and landscape architecture. Associate degree programs are offered at ESF’s Ranger School in the Adirondacks.

ESF alumni number more than 19,000 worldwide.

The ESF student body consists of approximately 1,750 undergraduate students and 550 graduate students.

ESF students contribute more than 70,000 hours of community service each year, and the College has been named to the President’s Higher Education Community Service Honor Roll.

US News & World Report ranks ESF among the “Top 30 Public National Universities” and one of the top 50 “Great Schools at Great Prices.” Forbes has also ranked ESF #20 among the “best value” colleges in the U.S.

Forbes magazine ranks ESF the third best college in the nation for women in science and engineering. Fifty percent of the undergraduate students majoring in science and engineering at ESF are women.

On the cover: NASA Earth Observatory image by Robert Simmon, using Suomi NPP VIIRS data provided courtesy of Chris Elvidge (NOAA National Geophysical Data Center).
Widely recognized as America’s top-ranked environmental college, ESF is a small and selective doctoral-level campus of the State University of New York (SUNY).

We offer more than 50 undergraduate and graduate degree programs focused on sustainability and the science, design, engineering and management of our environment and natural resources.

We discover real-world solutions to today’s environmental problems and educate tomorrow’s environmental leaders.

Join us and improve your world.
Improve Your World

Real World Learning
ESF is a doctoral degree (Ph.D.) granting institution, and that tells you a lot about the academic quality you'll find here. Colleges with doctoral programs typically attract top-notch faculty who want to push the boundaries of knowledge in their academic specialties, and they accomplish that by working with outstanding students on cutting-edge research and real-world problems.

At some colleges (most often the bigger ones), the best faculty members work primarily with graduate students, but at ESF our small-college environment ensures that undergraduates also get the personal attention they deserve. You'll find that ESF faculty members want to help you succeed in your academic program and prepare for a rewarding career, and that process begins in the smaller classes that ESF often provides.

When U.S. News & World Report magazine ranked the nation’s 100 “Best National Universities” based on percentage of classes with fewer than 20 students (2015 edition), ESF was ranked 18th in the nation, with 66 percent of our classes at that size.

The outstanding students that choose ESF also make a difference in the learning environment. They are well prepared for the focused and challenging academic programs offered at the College, and they come to ESF with a strong commitment to solving environmental problems. This results in a close-knit community of faculty and students who share many interests and work together to improve the world around them.

World-Renowned Faculty
The faculty at ESF come from impressive backgrounds and are working on research that’s aimed at solving many of the world’s environmental problems. Students work side by side with faculty members on current research ranging from restoring polluted lakes to developing new sources of biofuels. ESF has more faculty and students in academic programs focused on the environment than any other college in the United States, but our small-college atmosphere guarantees that faculty get to know students on a first-name basis. Outstanding teaching is the top priority for our faculty.
World’s Biggest Campus

Students participate in classroom, laboratory and field work at our main campus in Syracuse and on more than 25,000 acres of forest and wetlands at ESF’s regional campuses and field stations located throughout Central New York and the Adirondack Park region.

ESF faculty and students are also conducting environmental research all around the globe, and our study abroad programs can take you to exotic locations for real-world experience.

World-Class Value

ESF has earned top rankings from U.S. News & World Report in its annual survey of America’s best colleges, which placed ESF among the top 50 “best value” colleges in the nation and among the top 100 national universities for quality and reputation.

Forbes magazine currently ranks ESF 20th in its list of “best college buys” and third in its list of the nation’s best colleges for women studying science and engineering.

Best of Both Worlds

Right next door to ESF’s Syracuse campus is Syracuse University, and ESF students can take advantage of a wide variety of programs and services at both institutions. ESF students are able to take selected courses at SU and participate in academic and cultural events.

SU also provides ESF students with a greater choice of options for on-campus recreation, activities, clubs, dining and religious services. You can attend exciting Division I sports events in the impressive Carrier Dome and join more than 350 student organizations and clubs on both campuses.
ESF offers a great variety of academic programs for students interested in sustainability and the science, engineering, design and management of natural resources and the environment.

**Bachelor of Landscape Architecture**
- Landscape Architecture

**Bachelor of Science Programs**
- Aquatic and Fisheries Science
- Bioprocess Engineering
- Biotechnology
- Chemistry
- Conservation Biology
- Construction Management
- Environmental Biology
- Environmental Education and Interpretation
- Environmental Health
- Environmental Resources Engineering
- Environmental Science
- Environmental Studies
- Forest Ecosystem Science
- Forest Health
- Forest Resources Management
- Natural Resources Management
- Paper Engineering
- Paper Science
- Sustainable Energy Management
- Wildlife Science

**Associate Degree Programs at ESF’s Ranger School**
- Environmental and Natural Resources Conservation
- Forest Technology
- Land Surveying Technology

**College-wide Minors**
- Applied Statistics
- Bioprocess Science
- Biotechnology
- Chemistry
- Computer and Information Technology
- Construction Management
- Economics
- Environmental Biology
- Environmental Writing and Rhetoric
- Forestry
- Marine Science
- Mathematics
- Native Peoples and the Environment
- Microscopy
- Paper Science
- Physics
- Recreation Resource Management
- Renewable Energy
- Sustainable Construction
- Urban Environmental Science
- Urban Forestry
- Water Resources

**Study in Cooperation with Syracuse University**
- Information Technology Minor
- School of Management Minors
- SU Study Abroad Programs
- Hundreds of general education and elective courses to choose from

**Study in Cooperation with SUNY Upstate Medical University**
- Joint 3+3 program leading to Doctor of Physical Therapy degree
- Early admission to UMU College of Medicine
**Bioprocess Engineering**

If you want to help produce a future that’s powered by sustainable energy, take a close look at ESF’s bioprocess engineering program. You’ll learn about alternative fuels, renewable energy sources and emerging technologies, and be ready for a career that will help make the planet greener.

The first and only program of its kind in the northeastern United States, this program trains engineers who work in the emerging bioprocessing and biofuels industry to produce energy and chemical products from renewable biomass resources. The Biotechnology Industry Organization (www.bio.org) indicates that there are close to 200 ethanol biorefineries in the U.S. today, and only 141 petroleum refineries.

Students master a variety of subjects that are normally found in chemical engineering programs and supplement those studies with advanced courses specific to bioprocess engineering. The program focuses on the use of wood and other renewable biomass materials to replace petroleum in energy and industrial product applications. Examples of this technology include the bioprocessing of ethanol, butanol, polymers, and other chemicals and materials that have traditionally been produced from fossil fuels.

Eight concentration options prepare graduates for careers or advanced degrees in related engineering areas such as:

- biochemical engineering
- bioenergy engineering
- biomolecular engineering
- biopolymer engineering
- biomaterials
- environmental, industrial or paper engineering.

Bioprocess engineering students also enjoy the advantages of hands-on learning provided through faculty-guided internships and cooperative education (co-op) assignments. All students complete a two-credit internship, a paid co-op job placement, or a research project to gain valuable work experience. Co-op students will typically earn up to $16,000 during a seven-month placement.

Opportunities for students to gain research experience are plentiful. ESF is home to the SUNY Center for Sustainable and Renewable Energy, a 64-campus research clearinghouse focusing on new developments in biofuels and other energy-producing techniques.
Environmental and Forest Biology

If the health of the natural world is your priority, you’ll find a program in the ESF Department of Environmental and Forest Biology (EFB) that can prepare you for challenging graduate study or a rewarding career.

As the College’s largest department, EFB offers seven unique degree programs and more than 140 courses, many of which include extensive fieldwork. Few biology programs in the country focus on fieldwork like EFB does and the College provides abundant field facilities equipped to train the next generation of environmental biologists.

All EFB students, except those majoring in biotechnology, participate in a summer field experience — most students complete it at the College’s Cranberry Lake Biological Station in the Adirondacks. Students can also participate in a winter mammalogy program at ESF’s Adirondack Ecological Center where they’ll learn through hands-on activities how animals adapt to the winter. Fieldwork has also taken students to Ireland, Russia, Australia, Dominica, Costa Rica and South Africa.

Opportunities to work on research abound

Faculty and students are working on projects such as restoring the American chestnut tree through genetic science, using molecular biology to study wild birds and turtles, comparing the indigenous knowledge of Native Americans with western scientific knowledge and investigating viruses that live deep in glacial ice.

EFB students work closely with faculty to identify opportunities for internships and community service projects. Projects have included tourism planning, hydrology studies, developing guide maps for the public and work with the Rosamond Gifford Zoo in Syracuse. These undertakings not only benefit the community, but give our students real-world job experience before they graduate.

“We have like-minded students committed to making a difference. They’re creative and community spirited. They’ve chosen ESF because they want to make a difference in the world,” said Robin Kimmerer, professor.

Chose from a wide variety of biology majors

Environmental biology is the broadest of the biology majors offered at ESF and enrolls the most students. The program encourages each student to develop a unique plan of study with the help of an academic advisor, and also allows for completion of a minor. ESF and the School of Education at SUNY Oswego offer biology students the option of earning teacher certification through a coordinated graduate degree program.

Environmental biology also provides excellent preparation for admission to health-related professional schools, including human or veterinary medicine. ESF’s new program in Environmental Health (see page 10) also includes many environmental biology courses.

Aquatic and fisheries science involves the study of aquatic ecosystems to increase scientific understanding and to apply basic ecological principles to their management. Aquatic ecosystems include wetlands, streams, lakes, estuaries and oceans. Aquatic science professionals study and manage these natural systems for seafood, drinking water, recreation, transportation and aesthetics.

Our biotechnology major prepares students to tackle environmental, natural resource, agricultural and medical problems through training in molecular biology, cell biology, biochemistry, genetic engineering and related biological disciplines. As biotechnology is increasingly used to address such issues, it offers diverse career options in a growing biotechnology-related job market. Graduates are also well prepared to enter careers in medical and pharmaceutical research, clinical medicine or other health professions.

Conservation biology is the application of science to conserve the Earth’s imperiled species and ecosystems. The field is a relatively young one that is growing rapidly in response to the worldwide biodiversity crisis, perhaps the most critical environmental issue of our time.
Conservation biologists seek ways to integrate biological perspectives with social, economic and political ones to achieve conservation goals.

**Environmental education and interpretation** graduates work in a variety of positions aimed at connecting the general public to nature and the environmental sciences. Students become well grounded in the sciences and in skills specific to education and communication. The program prepares graduates for employment in nature centers, science museums, government agencies, zoos, urban parks, arboreta and aquaria, as well as the ecotourism industry, teaching and environmental education positions.

**Forest health** is a multidisciplinary field of study that prepares biology-oriented students for employment in positions that deal with maintaining the health of forest resources. This requires expertise in many disciplines, including plant pathology, entomology, ecology, mycology, dendrology, silviculture and forest management. Graduates are ready to enter positions in federal and state agencies, nonprofit organizations, and the private sector.

Students interested in **marine science** can choose from several ESF majors and receive credit for a 12-week semester of off-campus study and ocean education offered in cooperation with the Sea Education Association (www.sea.edu).

Our **wildlife science** major is focused on applied ecology, and students become actively engaged in the environmental challenges associated with managing wildlife ranging from endangered species to overabundant populations. Diverse job functions include management of wildlife on state, federal or private lands; inventory and assessment of wildlife populations and habitats; and interaction with the public to convey the value of wildlife conservation programs and initiatives. Courses often include field exercises at ESF field stations located throughout Central New York and the Adirondack region.

Check out ESF’s Cranberry Lake experience at www.esf.edu/efb

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**Career Options**

- Animal Scientist
- Botantist
- Fisheries Biologist
- Research Biologist
- Wetlands Ecologist
- Veterinarian
- Biotechnologist
- Entomologist
- Health and Medical Professional
- Science Teacher
- Wildlife Conservation Specialist
- Zoologist
Chemistry

Chemistry is something you do, it isn’t just something you study

While ESF students develop a strong foundation in the traditional areas of chemistry, ESF is unique in offering three concentrations in specialized topics designed to meet the needs of the 21st century. The Department of Chemistry offers degree options in:

- biochemistry
- environmental chemistry
- polymer chemistry

These programs take a hands-on approach to teaching and learning, and laboratory classes give students the chance to work with the same equipment used by professors to publish groundbreaking research.

Many chemistry students choose ESF because of this department’s strong focus on solving environmental problems through applied research projects. Our fuel cell research may lead to improved electric cars. Renewable sources of materials, fuel, and high-value chemicals are being developed here. Other projects investigate the degradation of pollutants in air and water or the interaction of chemistry and biology in environments as diverse as Antarctica or the coral reefs of Florida.

The opportunity to work closely with faculty members inspires most students to start research in their sophomore or junior years. All seniors complete an independent research project, and they often present their findings at local or national scientific meetings. The opportunity to carry out two or more projects gives graduates a familiarity with the practice of more than one area of chemistry. This extensive research experience is valued by employers as well as graduate and professional schools.

Students take laboratory classes and do research in Jahn Laboratory, a modern facility for research and teaching well equipped with the instruments needed for modern chemical research, including the only 800 MHz NMR spectrometer found at any college in Central or Western New York.

The U.S. Department of Labor projects that career opportunities for biochemists will increase by 31 percent from 2010 to 2020, much faster than the average for other occupations. The best career opportunities will require a master’s or doctoral degree, which may also be completed at ESF.

Dr. John P. Hassett, professor of chemistry, describes future career options broadly, “From chemistry you can go into many directions and areas.”

Career Options

- Biochemist
- Biotechnologist
- Environmental Chemist
- Forensic Chemist
- Medical Professional
- Pharmaceutical Chemist
- Polymer Chemist
- Science Teacher
- Toxicologist
Construction Management

“For more than 40 years, we have placed our graduates in responsible leadership positions in the construction industry,” said Dr. George Kyanka. “You can see the results of their work right here on the ESF campus, where our two newest buildings — Centennial Hall and the Gateway Center — were constructed under the supervision of our own graduates.”

ESF offers a bachelor of science degree in construction management that is focused on sustainable construction and renewable building materials. Students take classes, labs and lectures in the newly renovated Baker Laboratory, featuring high-tech lecture halls and computer labs where students use the latest commercial software for planning, scheduling, project management and estimating. Our students learn on the same software they will be using on the job.

The commercial construction industry represents a significant portion of the U.S. economy, and today’s most successful construction companies are very focused on environmental concerns, especially those related to energy efficiency and sustainable building materials. Seventy percent of today’s construction projects costing $50 million or more are LEED certified.

ESF’s construction management graduates have a combination of engineering and management skills that emphasize using renewable resources in construction and employing methods to ensure energy efficiency. Environmental issues are incorporated in courses covering topics such as asbestos mitigation, noise pollution, air sampling, energy conservation codes and environmental impact evaluation.

Students get real-world experience through internships and they also work on houses being built by the ESF/SU chapter of Habitat for Humanity. There are many opportunities for undergraduates to work with faculty on research projects.

A team of students from ESF and two partnering campuses won the top prize while competing against 30 college teams at the 2014 Challenge Home Student Design Competition sponsored by the National Association of Homebuilders and U.S. Department of Energy.

“We prepare our graduates for successful careers in all aspects of construction management,” said Kenneth Tiss, a faculty member in the program. “They are estimators, schedulers, project engineers, superintendents, project managers and safety officers, among others. They are employed with general contractors, construction managers and suppliers; mechanical, electrical, earthworks and plumbing subcontractors; and governmental agencies. These companies range in size from small local firms to national and international firms.”

Career Options

- Construction Engineer
- Construction Materials Sales/Marketing
- Construction Supervisor
- Field Operations Manager
- Project Engineer
- Project Estimator
- Real Estate Development
- Safety Inspector
Environmental Health

The Bachelor of Science program in Environmental Health is the newest addition to the comprehensive range of environmental programs offered at ESF. It is one of a very small number of programs nationally that are focused on this incredibly important field of study.

The impacts of environmental factors on human health are becoming more evident as research scientists and health care professionals continue to explore these interrelated areas. The World Health Organization has estimated that up to 80 percent of chronic diseases are either initiated or aggravated by environmental factors. Students in this program study how people interact with their physical environment — the air, water, soil, plants, animals, homes and work-places that surround us — in order to identify environmental hazards and prevent or reduce related threats to our health. Graduates will be prepared for employment in private industry, government agencies and nongovernmental organizations concerned with pollution abatement, protection of public health, and research in the health sciences. They may enter jobs in the currently understaffed environmental health workforce or enter graduate degree programs in environmental health or the allied health professions. The program also provides excellent preparation for entry to medical school, and outstanding students may seek early admission to a joint BS/MD program offered in cooperation with neighboring SUNY Upstate Medical University (UMU).

Coursework for the Environmental Health major takes advantage of the depth and diversity of faculty expertise in the environmental sciences found at ESF. It includes core courses in biology, chemistry, physics and mathematics, along with more focused courses covering topics such as environmental sampling, atmospheric sciences, food safety, environmental risk assessment, hazardous materials management, water pollution, infectious diseases, epidemiology and immunology. Students are able to apply the knowledge and skills they learn in classes and laboratory sessions through a required summer internship or professional experience.

ESF is currently working with three additional SUNY campuses (Onondaga, Oswego, and Upstate Medical), our state government and several local companies to establish a new SUNY Institute of Environmental Health and Environmental Medicine. The Institute will provide a regional hub for related teaching, research, entrepreneurship, technology and economic development in Syracuse and Central New York based upon the significant growth projected in this specialized sector of medicine and health care.

Career Options

- Epidemiologist
- Environmental Health Consultant
- Food Safety Specialist
- Industrial Hygienist
- Health Care Research Scientist
- Occupational Safety Expert
- Physician
- Toxicologist
Environmental Resources Engineering

With an innovative undergraduate curriculum and a wide variety of supportive graduate courses, the Environmental Resources Engineering (ERE) program provides incredible opportunities for students interested in preparing for careers or graduate school options in areas related to civil and environmental engineering.

Faculty in this program have particular strengths in areas such as water resource engineering, ecological engineering and geospatial engineering that are rarely found in undergraduate programs at other colleges. The curriculum includes hands-on, design-oriented courses starting in the freshman year and allows students to explore advanced topics of interest through senior engineering design electives.

Personal attention from faculty helps students succeed and acquire the engineering skills they need to meet tomorrow's environmental challenges. Students take a range of engineering and environmental science courses and work on hands-on projects to underscore the lessons from lectures and textbooks. Classroom learning is supplemented with laboratory and fieldwork, and there are great opportunities to participate in research and team projects.

ERE students are also encouraged to undertake extracurricular projects. The ESF chapter of Engineers Without Borders traveled recently to the Caribbean island of Dominica to help install a micro-hydro turbine to supply electricity for the Archbold Tropical Research and Education Center. "We took on the project and made it happen," said sophomore Megan Scott. "We had to figure out the technical things ourselves. It was great to use our problem-solving skills and then see the outcome."

This professionally oriented program is also well connected to the engineering community. Engineers from outside the College often come to work with students and are invited to the Senior Design Presentation where students present their solutions to real-world problems. This "senior recital" is a capstone event showcasing their engineering and communication skills for their peers, family and future employers.

Graduates of the program often enter engineering positions that focus on civil works projects, environmental monitoring, site remediation, pollution abatement, energy systems and related areas. Environmental engineering is one of the fastest-growing engineering specialties in today's economy.

Career Options

- Civil Engineer
- Mapping Specialist
- Energy Planning Supervisor
- Environmental Engineer
- Public Utility Manager
- Energy Supply Engineer
- Structural Engineer
- Water Resources Engineer
Environmental Science

The Division of Environmental Science at ESF offers an interdisciplinary degree program in environmental science within an environmentally focused college.

This program offers undergraduate students a tremendous variety of courses and faculty members to choose from, excellent facilities for research and field study, and a level of faculty expertise that is rarely found at other colleges.

The environmental science curriculum provides a strong foundation in the sciences and introduces students to the interdisciplinary breadth of environmental science through a selection of core courses in biology, chemistry, ecology, geography, engineering, forestry, environmental studies and other areas. Students learn how to apply a systems approach to problem solving and how to communicate those solutions effectively.

Students in the junior and senior years of the program are able to focus directly on professional courses that provide career preparation through specialized options in areas such as environmental analysis, watershed science, environmental information and mapping, earth and atmospheric sciences, environmental health or renewable energy. Students can add self-designed minors in environmental science or pursue a minor in another subject, to tailor their degree program to fit their personal goals.

“ESF’s environmental science program is highly individualized, and it’s also a good pre-med program,” said Dr. Russell Briggs, program director.

Undergraduate students are encouraged to work closely with faculty members engaged in research and environmental problem-solving, and many choose to enter the College’s nationally recognized graduate degree (M.S., M.P.S., Ph.D.) programs in environmental science. Teaching and research activities are supported by excellent laboratory, library and computing facilities available on the ESF campus and through Syracuse University. Faculty and students also benefit from a variety of field stations located on 25,000 acres of college-owned forest and wetlands.

Which is right for you?

Environmental science and environmental studies are ESF’s broadest and most interdisciplinary majors. They each have a distinctive focus:

**Environmental Science**
- Math and science focus
- Great flexibility to meet student interests
- Strong pre-med program

**Environmental Studies**
- Social science and humanities focus
- Emphasis on policy, management and communications
- Strong pre-law program

Career Options
- Energy Consultant
- Environmental Health Professional
- Environmental Scientist
- Mapping Specialist
- Pollution Control Specialist
- Science Educator
- Water Resource Manager
Environmental Studies

Recognized as the pre-eminent environmental studies program within the SUNY system, and one of the top programs in the country, ESF’s program is the one others are measured against.

Students who are enrolled in environmental studies at ESF have the incredible advantage of attending an environmental college with more than 130 faculty and hundreds of related courses to choose from, including elective courses taught at Syracuse University. Three program options are offered in environmental studies:

- biological applications
- environment, communication and society
- environmental policy, planning and law

With a mix of humanities, social science and natural and physical science, environmental studies graduates work to improve the world by promoting ecological sustainability. They connect the scientific community with government, business, non-governmental organizations and the public.

Environmental studies brings this mix together to improve the environment. “We know there’s lots of good science and technology about the environment,” said Sharon Moran, associate professor, “but is it being used?”

Students take what they learn in the classroom into the community. They have created energy audits for the City of Syracuse and developed energy reduction strategies through hands-on work with resources around the city. Students also have worked on the revitalization of Onondaga Creek — a major undertaking in the local area. Internships and team projects are offered in all three option areas.

At the junior and senior level, students receive advising in their specialized area of study by faculty members who work in those areas. Faculty also teach in campus-wide minors that students may complete to enhance their education. A minor in urban environmental science and a minor in environmental writing and rhetoric focus on these specialities.

Environmental studies graduates have a variety of career paths available to them. Jobs often involve fieldwork, environmental planning, advocacy and work with non-profit or government agencies. Frequently they serve as intermediaries between scientists and the public, putting them in the forefront of current environmental issues. Graduates have also entered a wide range of graduate degree options leading to careers in law, education, public administration, environmental consulting, news media and other related areas.

Career Options

- Cultural Impact Specialist
- Environmental Agency Analyst
- Environmental Planner
- Environmental Law
- Environmental Economist
- Sustainability Coordinator
- Environmental Lobbyist
- Environmental Writer
Forest and Natural Resources Management

Our society uses land, water, forest and energy resources to produce goods and services that people consume every day. Now we face the very real possibility that those resources may someday be depleted.

ESF is preparing a new generation of professionals with the problem-solving skills needed to manage the sustainable use, recycling and renewal of the earth’s forest and natural resources, and graduates from our Department of Forest and Natural Resources Management (FNRM) are leading the way.

These programs include a combination of courses designed to provide a foundation in the biophysical and social sciences along with the management and technical training required for a successful career. Opportunities for summer field study programs and internships with forestry firms, energy companies, and government agencies help students gain important experience outside the classroom.

Our forest resources management program is one of the oldest and most respected forestry programs in the U.S. and is professionally accredited by the Society of American Foresters. Graduates work as professional foresters and consultants in a variety of urban and rural locations, where they manage the sustainable use of forest resources to produce wood, paper and other important forest products, and to provide an appropriate natural environment for wildlife and recreation.

Career Options

- Conservation Scientist
- Land Manager
- Forest Consultant
- Natural Resource Planner
- Outdoor Recreation Planner
- Park Ranger
- Sustainability Coordinator
- Urban Forester

Natural resources management is a broad-based degree program that prepares students for a range of graduate school options and for managerial, legislative, regulatory and other positions in environmental consulting firms, nonprofit organizations, public agencies and industry. Students can specialize in areas such as environmental resources, recreation management or water resources.

Forest ecosystems science combines professional competencies in forest management and environmental biology. Students in this major are prepared to enter graduate programs and careers in the management of natural resources, ecological research, or other areas of applied forest biology.

“The opportunity to work with top-notch faculty, learn the latest technologies and spend significant time in learning settings, prepares our students for a wide variety of professional, natural resources careers,” said Professor David Newman.
Two Degrees in Four Years

Consider including The Ranger School’s field-based program as part of a bachelor’s degree, earning an associate degree along the way. Many students in Forest and Natural Resources Management, and some in other majors, choose to include this year of study in the Adirondacks as part of their educational plans. Here’s how it can be done:

**First Year**  Complete freshman-level core courses at ESF’s Syracuse campus or at another college.

**Second Year**  Complete an associate degree in Environmental Conservation, Forest Technology or Land Surveying Technology at The Ranger School.

**Third and Fourth Years**  Return to ESF’s Syracuse campus to complete your remaining bachelor’s degree requirements.

The ESF Ranger School

“When you come up here, you get to go outside a lot. Your classroom is outside,” said Cindy Williams, a graduate of SUNY-ESF’s Ranger School campus in Wanakena, N.Y.

The Ranger School offers associate degree programs in environmental and natural resources conservation, forest technology and land surveying. In these programs, students learn by doing. Much of the work takes place in the 2,800-acre forest that is part of ESF’s regional campus in the Adirondack Mountains.

Ranger School faculty have advanced degrees in their field and a significant amount of field experience related to forestry, surveying and conservation. They have worked for a variety of governmental agencies and private companies, bringing years of practical experience into the classroom.

In the field, faculty members work side-by-side with students on projects such as studying a forest that is recovering from a devastating storm, or monitoring the development of tree stands planted several generations ago.

It’s this hands-on approach to learning that appeals to Ranger School students. “I love being outside. I love working with the environment,” said student Samuel Urffer. “One of the main reasons I came to ESF was The Ranger School. If I could do my whole bachelor’s degree like this, I’d probably do it. I’d rather be outside.”

Approximately 50 percent of class time is spent gaining hands-on, technical experience in the forest laboratory, which is part of the 6-million-acre Adirondack Park.

“I think students come to The Ranger School because they know they are going to be rewarded with a theory-based but experience-driven education that’s as relevant as it is practical,” said Associate Professor James Savage. “The fact that they get to live, work and play in the Adirondack Park probably doesn’t hurt either.”
Landscape Architecture

Employment of landscape architects is expected to jump 16 percent between 2010 and 2020, and U.S. News & World Report magazine has listed landscape architecture among its “50 Best Careers.”

Landscape architecture is a licensed profession that provides wonderful opportunities for students interested in a unique combination of environmental science and design.

This is a career-oriented degree program, which includes a semester of off-campus study, to ensure that students are well prepared for professional practice. Students have their own studio workspace and get hands-on experience with the latest design software. You will learn from faculty members who are among the nation’s leading experts in landscape design, community planning, cultural landscape preservation, environmental perception and urban ecology.

Landscape architects deal with a variety of issues in their work, from the natural environment and urban sprawl to issues such as transportation planning and public health. At ESF, students are able to study their craft at a college that focuses on environmental factors and related social and environmental issues. The program is designed to teach students how to break a problem into manageable steps and then propose a solution. Students learn to work with various constituents and incorporate different ideas in their designs, and to create connections between the natural environment and structures built by people.

The program requires five years of study, including one semester of off-campus study. Working closely with faculty, students develop their own off-campus study topic. Many choose to study abroad in Europe, Asia, South America and Australia, while others focus their work in the U.S. At the end of the semester, they complete an undergraduate thesis project describing their work.

Students in landscape architecture at ESF solve problems for real-life clients. An urban design studio class allows students to work on design projects with real communities and user groups.

ESF’s program in landscape architecture was ranked #13 in the U.S. in the 2014 edition of America’s Best Architecture and Design Schools (Design Futures Council) and was ranked #3 in the East. It is one of the oldest and largest programs in the United States, with 20 full-time and part-time faculty members offering a tremendous variety of related courses to choose from. Students also have access to architecture, interior design and other elective courses at Syracuse University.

“I want to be a Landscape Architect...” at www.esf.edu/la/why.htm
ESF offers the country’s oldest continuously operating degree programs in these subjects. Since its inception in 1920, this department has been at the forefront of research and development in the field.

Paper engineering prepares specialized chemical engineers to develop a wide range of bioengineered products. Students have the opportunity to study with faculty making cutting-edge discoveries. The program focuses on the composition and engineering of paper products and leads to excellent career options.

Students choosing to major in paper science also study chemistry and chemical engineering related to the manufacture and use of pulp and paper products. Students may use their technical electives to specialize in a subject area of interest or complete a minor in management, information technology or other areas.

The paper industry is hungry for science and engineering graduates, and to ensure their needs are met, an industry foundation provides generous scholarships to qualified students who study in these programs at ESF.

“The scholarship program was a big lure,” said Kristen Molta who came to ESF from Liverpool, N.Y.

To further their experience, all students complete at least one paid summer work experience in the industry, most often at a paper mill or with a chemical supplier. By training students while they’re still in college, our partner companies benefit by creating their own ready-to-hire workforce.

Students are also engaged in research and product development. During their senior year, they design and manufacture paper in a papermaking facility on campus.

When students graduate they receive multiple job offers with an average starting salary in excess of $50,000. It’s not uncommon for all of our students to have jobs lined up before they graduate.

“ESF graduates are between one and one and a half years ahead of chemical engineers when they enter the industry because they know the language of the paper industry,” said Dr. Thomas Amidon. “This saves companies money on training and makes ESF graduates much more desirable as employees.”

Visit [www.esf.edu/pbe/](http://www.esf.edu/pbe/) to see a paper run.
ESF has developed one of the nation’s first degree programs aimed at the management of energy resources. The Sustainable Energy Management (SEM) program is structured to introduce students to a wide range of energy markets and resources (fossil fuels, electricity, renewable and sustainable energy resources) while maintaining substantial flexibility for student-centered learning in understanding and managing energy systems.

"Sustainability and energy management are the future of modern environmentalism. I’m glad ESF is one of the first to recognize it and create a program that students can pursue so they can make a future in this field," said Victoria McGarril, a member of the first graduating class of the new SEM major.

SEM combines the technical understanding of energy and making energy resources more sustainable and, at the same time, trains students as professional managers of those resources, according to Michael Kelleher, senior research associate.

“It’s a fairly new program,” Kelleher said. “I don’t think I’ve seen many other programs that have combined management and energy. There are some programs in sustainable and renewable energy across the country, but with a more technical focus than management.”

“We’re working at that interface between the producers of energy and the consumers of energy, and managing that,” said Dr. David Newman, chair of the Department of Forest and Natural Resources Management, which oversees the program.

The SEM program — with its focus on management — is unique. “Most other energy programs have either been engineering programs or energy policy but not really energy management,” said Newman. “And the fact that it’s at the undergraduate level rather than the graduate level also makes a difference. In that sense, I think we’re ahead of the curve.”

ESF boasts a number of on-campus energy projects, such as the photovoltaic arrays on Baker Laboratory and Walters Hall, and the combined-heat-and-power plant in the Gateway Center. One of the reasons those projects were put in place was to serve as a living laboratory for students. “This allows students to see them (the projects), to see the data from them, to get experience analyzing them and analyzing the financial decisions we’ve made in adopting them,” said Kelleher. “It’s similar to labs in buildings for other majors. The energy projects we have on campus are an integral part of our teaching equipment.”

The Sustainable Energy Management program develops professional skills that employers tell us are the most important traits they look for in new employees. Graduates work for public agencies, private industry, and nonprofit organizations.
Special Academic Opportunities

There are a variety of special academic opportunities available at ESF to complement your chosen degree program. Here are a few of the special programs available to undergraduate students.

Minors at ESF
Completion of a minor at ESF generally requires the completion of a structured set of five to six academic courses (15-18 semester hours). The College currently offers minors in applied statistics, bioprocess science, biotechnology, chemistry, computer and information technology, construction management, economics, environmental writing and rhetoric, forestry, marine science, microscopy, mathematics, Native peoples and the environment, paper science, physics, recreation resource management, renewable energy, urban environmental science, and water resources.

Minors at Syracuse University
Minors in entrepreneurship, general management, or marketing are available to ESF students through an agreement with Syracuse University’s Whitman School of Management. Participating students pay SUNY tuition charges for their required courses.

Joint Programs with Upstate Medical University
ESF students may enter a cooperative 3+3 program to gain admission to the Doctor of Physical Therapy program at SUNY Upstate Medical University, which is located in walking distance of the ESF campus. Outstanding freshman applicants to ESF can also apply for early admission to UMU’s College of Medicine, through a coordinated BS/MD program.

Internships
Undergraduate students can explore their interests and career options through a variety of internships on campus, in the Syracuse area, or around the country. Internships and other experiential learning opportunities are available to students in every ESF major, and approximately 80 percent will complete a work-related experience.

Service Learning
ESF students contribute to the larger community through a selection of more than 60 service-learning courses that provide real world experience, college credits, and the satisfaction of helping others while you solve environmental problems. ESF ranks among the top 10 percent of U.S. colleges for student participation in service learning.

Undergraduate Research
ESF is a Carnegie classified Doctoral/Research university, and is the only such institution in the U.S. that is also classified as “small.” As a result, undergraduate students at ESF have unique and plentiful opportunities to work in research teams with ESF graduate students and faculty members. Many undergraduates will conduct their own publishable research projects and present their findings at conferences within their fields.

Pre-law Program
The College has a well-established program to prepare students for admission to law schools and is an outstanding choice for students interested in the growing field of environmental law.

Pre-Health Professions
Students interested in preparing for admission to medical, dental or veterinary schools most often major in biology, biotechnology, chemistry, environmental health or environmental science at ESF. The College has transfer agreements and a coordinated admission program with nearby SUNY Upstate Medical University.

Honors Program
The Honors Program provides opportunities for first- and second-year students to schedule honors-level general education courses, including a special selection of honors courses taught at Syracuse University. The junior and senior years of the program are focused on research and require completion of an Honors Thesis or Honors Project. All applications for freshman admission are reviewed for potential admission to the Honors Program (no separate application is required).

Study Abroad
ESF offers a variety of study abroad and international exchange programs, and ESF students have access to study-abroad programs at Syracuse University and at other SUNY campuses. More than 20 percent of ESF students typically study abroad.
The ESF-SU Relationship

ESF students enjoy the intimacy of a small, specialized college and the benefits of a large university thanks to our long-standing partnership with neighboring Syracuse University (SU).

ESF students have many of the same opportunities and privileges as SU students through this unique partnership, which encompasses nearly everything related to college life and dates back to the founding of the College in 1911, when it was first established as the New York State College of Forestry at Syracuse University.

Students can take advantage of a variety of academic options at SU to supplement their ESF education. Special access to courses at SU enables our students to take classes in complementary areas such as management, education, mathematics and liberal arts while paying SUNY tuition. Our students may also use SU’s extensive libraries and computer labs to supplement those on the ESF campus, and many explore the world beyond campus through SU’s internationally recognized study-abroad programs.

ESF students can eat in any of SU’s five residential dining halls and the ESF-SU relationship provides an astounding number of student activities. Students can join more than 300 extracurricular clubs or activities from the marching band that performs during football games, to the cheerleaders for the SU basketball team, to drama and musical groups. ESF students can’t participate in SU’s Division I NCAA sports teams, but you can get in on the action by cheering the Orange in the Carrier Dome. And when you are looking for a workout, you’ll have five fitness centers, two gyms, swimming, ice skating and tennis facilities to choose from.

At the end of four years ESF graduates receive a diploma that proudly carries the Syracuse University seal alongside the seal of the State University of New York College of Environmental Science and Forestry.
A big part of your college education will not happen in the classroom or be found in any textbook. The experiences you have with your fellow students will add as much to your personal growth and future career success as lectures and research projects.

Beyond the Classroom

ESF offers many programs, clubs, organizations and opportunities for students to get acclimated and get involved in college life.

Your transition into college will get an assist from a number of programs designed to help students find their niche at ESF. They begin the moment you arrive on campus with New Student Orientation and continue throughout the year in residence life programs, community service and involvement in student organizations.

New students participate in a First-Year Experience program and complete up to three introductory-level courses together while also living and studying together in Centennial Hall. Students, faculty and staff build more meaningful relationships and develop a deeper sense of involvement through this program. With floor dinners, Sunday night programs, shared classwork and service projects, “There’s always something going on,” said senior Katy Johnson. “It’s a community within a community.”

ESF offers a Student-to-Student Mentoring program that links new and returning students. The mentors help new students adapt to the ESF community through regular informal gatherings and by sharing their tips for academic and personal success.

Students are given many opportunities to create their own campus activities. The Undergraduate Student Association, clubs and other student groups offer opportunities for any student to shape their experiences outside the classroom.

The Syracuse community

ESF is located within a 5-minute shuttle bus ride to downtown Syracuse, a cosmopolitan city whose metropolitan area population exceeds 660,000.

Cultural activities are plentiful. They include a world-class art museum and excellent theater companies, an active local music scene as well as concerts by international artists, and professional sports teams in hockey, baseball and indoor soccer.

Students from both larger cities and smaller towns will find that Syracuse is a diverse and welcoming community, and a great “college town.”
**Service learning**

ESF students don't have to wait until graduation to improve their world. The College's Service Learning Initiative will give you the opportunity to make an impact well before you receive your degree.

Service learning links academic study with community service. Because students who attend ESF already have a deep interest in improving their environment and helping others, the College's curriculum naturally lends itself to service learning.

Students contributed more than 70,000 hours of service to the community, and ESF was named to the President’s Higher Education Community Service Honor Roll for 2014.

Service learning has been embraced by the College's clubs and organizations as they have made community service a priority for their members. Projects include students in environmental interpretation courses providing nature programs for inner city youths at urban parks; landscape architecture students developing and designing proposals for community organizations, schools and neighborhoods; and engineering students devising bioretention basins for treating stormwater runoff in urban environments.

“We get a lot of real life experience,” said Nicole Formoso, a landscape architecture student. “I personally get excited that we can help so many people.”

**Gateway to campus life**

ESF’s Gateway Center provides an exciting venue for student activities and services conveniently located right in the center of campus. Facilities in the Gateway Center include an expanded College Book Store, a café food service with concourse seating and an event center capable of hosting meetings or events for up to 500 people. A unique green roof, covered with native plant species and located on the building’s second level, provides a spectacular view of the city of Syracuse and the surrounding area. The Center also includes a sustainable biomass-fueled power plant that burns wood pellets to generate a significant portion of the heat and electrical power used on campus.

**Welcome home**

All first-year students and many upperclassmen live on campus in Centennial Hall, an environmentally friendly “green” residence hall that houses more than 530 students and opened in fall 2011. The east wing of the building houses first-year students in double rooms with private baths, and the west wing houses upperclassmen in a combination of two-bedroom suites with private baths and four-bedroom/two bath apartments. Student lounges, laundry facilities, enclosed bicycle storage and other common areas are also included. Student rooms are furnished with a special “campus collection” of sustainable hardwood furniture manufactured by the Syracuse-based L. & J.G. Stickley Company.
Centennial Hall has been awarded a Gold-level certification by the U.S. Green Building Council’s Leadership in Energy and Environmental Design (LEED) program for its sustainable building design and energy efficiency. Students are able to live in very comfortable surroundings while doing their part to consume less energy and reduce greenhouse gas emissions.

**Looking for something to do?**

Student clubs and organizations at ESF include student government, student chapters of professional organizations, and sports and community service clubs. Activities run the gamut from service fraternities to major-specific clubs, Habitat for Humanity, a music society and a student newspaper.

There are also numerous on-campus social programs and activities. The College offers weekly free screenings of the latest movie releases and student government hosts campus-wide social gatherings. The Insomniacs student group organizes activities such as Kan Jam tournaments, mechanical bull riding and live music that take place between 10 p.m. and 2 a.m. on weekends.

Students may also play more than 30 club or intramural sports offered at Syracuse University for fitness and recreation.

April brings Earth Day celebrations to many college and university campuses, but at ESF you can count on an entire Earth Week filled with tie-dyed shirts, hula hoops, barbecues and an annual “Quadstock” for music lovers!
Come Play With Us

The intercollegiate athletics program at ESF can trace its roots all the way back to 1912, when students organized a Forestry Club on campus that has sponsored an intercollegiate timber sports competition every year since.

Students can compete on several ESF intercollegiate athletic teams, including men’s and women’s teams in soccer, golf, cross country, track and field, and field hockey. ESF students are also allowed to compete on club-level intercollegiate sports teams sponsored by Syracuse University, including baseball, hockey, tennis, ski racing, volleyball and others. A club-level bass fishing team is the newest addition to ESF’s intercollegiate sports program.

ESF’s “Mighty Oaks” athletic teams generally compete against NCAA Division III (non-scholarship) teams from colleges in New York and surrounding states. ESF is a member of the United States Collegiate Athletic Association (USCAA), an organization that promotes quality athletic programs at small colleges and holds national championship tournaments in nine sports.

The ESF men’s cross-country team captured the College’s fourth straight USCAA national championship during the fall 2014 season, and the women’s team placed third in their championship meet. ESF’s soccer and golf teams have also been ranked among the USCAA’s top teams, with women’s soccer reaching the USCAA “final four” in 2014.

Starting in the fall of 2015, ESF will compete in the Hudson Valley Intercollegiate Athletic Conference, giving Mighty Oaks athletes their first opportunity to develop conference rivalries and increasing the teams’ chances of participating in national tournaments.

Timber sports is one of ESF’s most popular athletic activities, and our teams compete with the best in the nation. Team Captain David Andrews captured second-place honors at the U.S. Collegiate Championship in 2012 and the competition was televised on ESPNU.
Applying for Admission

Admission to SUNY-ESF is selective, but our application process is highly personalized. Counselors in our Admissions Office will work closely with you to ensure that your interests and abilities are a good fit with the academic and extracurricular opportunities available at ESF and that you have all the information you need to make your college choice.

To meet the challenges of our academic programs, you should complete a strong college preparatory program in high school or an appropriate college transfer program. Overall performance in your high school or college-level courses will be the most important factor in determining whether you are ready to begin your studies at ESF. A strong background in mathematics and science is expected for most majors but art or design course work is helpful for landscape architecture students and technical course work can help to demonstrate an aptitude for engineering programs.

ESF is among the most selective institutions in the State University of New York. Applicants are encouraged to complete a campus interview, since admission qualifications vary somewhat from program to program. Freshman applicants who are not offered fall term admission are sometimes offered a guarantee of transfer admission for a later entry term.

More than 30 percent of our freshman applicants come from outside New York state. ESF also attracts a significant number of transfer applicants each year, enrolling more than 200 new transfer students from two-year and four-year institutions each fall and 50 additional transfer students each spring.

Our application procedures, including the necessary forms, are described on our web site at www.esf.edu/admissions. We encourage you to submit your application online. If you have any questions, please feel free to contact an admissions counselor by phone, email or in person to help you select an appropriate program of study and entering semester.

You can apply online at www.esf.edu/admissions

Application Dates

The admissions and financial aid application processes are linked so it is important to submit both forms in a timely fashion. The following dates should be kept in mind as you prepare to apply to the SUNY College of Environmental Science and Forestry.

Undergraduate Admission:

Fall semester entry
- Early Decision (freshmen only) deadline – December 1
- Regular Decision priority deadline – February 1
- Transfer recommended filing date – March 1

Spring semester entry
- Regular freshman recommended filing date – November 1
- Transfer recommended filing date – November 1

Financial Aid:
- FAFSA submission opens – January 2
- Fall semester priority deadline – March 1
- Spring semester priority deadline – November 1
World-Class Value

When the editors of America’s best-known college guides consider a college or university for their “best buy” rankings, they make an important distinction — they assess a school’s quality along with its cost to determine the real value you’ll find there. And we’re pleased to tell you that by all accounts ESF is considered a world-class value.

Where else can you find the specialized and high-quality academic programs, small-college class size, and big college social life you’ll find at ESF and get all that at an affordable SUNY price? Even students from outside New York state agree that ESF is a fabulous bargain, often costing them less to attend than colleges in their home states.

Applying for Financial Aid

ESF offers a comprehensive financial aid program consisting of academic merit scholarships and a full range of need-based grants, student loans and campus employment options. More than 85 percent of our full-time undergraduate students receive some type of financial assistance.

The College mails a financial aid brochure to each prospective student, and we encourage you to seek additional details by visiting our website at www.esf.edu/financialaid/. Applicants for admission should complete the federal FAFSA aid application by March 1 to receive priority consideration.

Academic Merit Scholarships

High school seniors with outstanding academic achievements may qualify for scholarships through ESF’s Presidential Scholarship Program. You must submit the ESF Admissions Application along with a high school transcript showing grades, rank in class (if available), and SAT or ACT scores no later than February 1 if you wish to be considered for a Presidential Scholarship.

Applications received by this date will be reviewed by our Scholarship Selection Committee to identify candidates who have achieved:

- A score of 1200 or higher on the combined reading plus mathematics sections of the SAT, or an ACT composite score of 27 or higher, and
- A high school grade average of 90 (A-) or higher.

Applicants who meet these initial review criteria will be given further consideration for Presidential Scholarships or other merit scholarships (an award is not guaranteed).

Presidential Scholarships may provide up to $3,000 per year for New York state residents or up to $8,000 per year for out-of-state residents, and may be offered along with other grants.

Transfer applicants are also considered for merit scholarships and are encouraged to contact the Undergraduate Admissions Office for additional details. Merit scholarships generally require a transfer college GPA of 3.40 or higher for consideration.

Cost of Attendance

A typical full-time student living on campus would have the following costs for the 2015-16 academic year (two semesters).

<table>
<thead>
<tr>
<th>Budget Item*</th>
<th>NY State Resident</th>
<th>Out-of-State Resident</th>
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</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$6,470</td>
<td>$16,320</td>
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<tr>
<td>Fees</td>
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</tr>
<tr>
<td>Room</td>
<td>7,900</td>
<td>7,900</td>
</tr>
<tr>
<td>Board</td>
<td>6,590</td>
<td>6,590</td>
</tr>
<tr>
<td>Books and Supplies (est.)</td>
<td>1,200</td>
<td>1,200</td>
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<tr>
<td>Personal Expenses (est.)</td>
<td>450</td>
<td>450</td>
</tr>
<tr>
<td>Transportation (est.)</td>
<td>600</td>
<td>800</td>
</tr>
<tr>
<td>Total Annual Costs</td>
<td>$24,510</td>
<td>$34,560</td>
</tr>
</tbody>
</table>

*Please note that the total costs listed include estimated costs for books, personal expenses and transportation. Be sure to include these when comparing college costs and financial aid awards.
Practicing What We Teach

Visitors to our Syracuse campus can quickly see that our students, faculty and administration have agreed to “practice what we teach.” The campus itself has become a showcase for educational projects focusing on renewable energy and sustainability.

ESF’s new Gateway Center is one of the most innovative and energy-efficient buildings found on any college campus today. It features a unique power plant that burns wood pellets to provide heat and electricity to the Center and several other campus buildings. A “green roof” planted with native vegetation helps to insulate the building while controlling and reusing stormwater runoff.

Students living on campus in ESF’s Centennial Hall enjoy a comfortable and environmentally friendly lifestyle in a residence hall that has achieved a top rating for sustainability and even includes an indoor bicycle storage area!

Other sustainable energy projects on campus include a biodiesel mixing facility and a fleet of biodiesel-powered vehicles, photovoltaic solar panels attached to Baker Laboratory and a green roof planted on Walters Hall. Student researchers have helped the College examine the potential installation of small windmills on campus rooftops, along with a redesign of campus green spaces.

The ESF campus has won several environmental awards, including an AASHE/STARS silver rating, a Tree Campus USA designation, recognition as one of the Sierra Club’s “Cool Schools” and a Princeton Review “320 Green Colleges” ranking.
If you really want to study the environment, you need to immerse yourself in it! ESF may offer you more opportunities to do that than any other college in the nation. Our students have access to regional campuses and field stations that provide more than 25,000 acres of natural forest and wetlands for faculty-led research projects and "hands-on" learning outside the classroom.

1. **The Tully Campus**
   - 4,000 Acres
   - Consists of the Heiberg Forest and the Tully Field Station. Located 25 miles from the College’s main campus in Syracuse, the forest is used for field research, instruction and demonstration sites.

2. **LaFayette Road Experiment Station**
   - 44 Acres
   - This experiment station houses the College arboretum, greenhouses and a tree nursery, and contains both plantations and natural tree stands.

3. **Thousand Islands Biological Station**
   - 1.5 Acres
   - Located on an island in the scenic St. Lawrence River, TIBS provides a setting for research that focuses on aquatic ecology.

4. **The Ranger School**
   - 2,800 Acres
   - On the shore of the Oswegatchie River in the Adirondacks, SUNY-ESF’s Ranger School offers three associate degree programs and a summer program in forestry.

5. **Cranberry Lake Biological Station**
   - 1,000 Acres
   - Accessible only by boat, this field station hosts a summer program for biology students and independent research projects by visiting scientists.

6. **The Newcomb Campus**
   - 15,000 Acres
   - This campus includes the Adirondack Ecological Center, the Adirondack Interpretive Center and the Huntington Wildlife Forest. Students and visiting scholars have access to housing and dining facilities and two lakes.

7. **Pack Demonstration Forest**
   - 2,400 Acres
   - This forest is the home of the DEC’s Environmental Education Camp and several miles of hiking trails, one of which is accessible to people using wheelchairs.