From the university’s highly-ranked undergraduate business program to innovative teaching, research and outreach in communication, development sociology, landscape architecture, environmental sciences, biological sciences, and other fields, the College of Agriculture and Life Sciences offers a broad spectrum of programs that complement our historic and powerful agricultural roots. Our diverse portfolio of faculty, staff and students enables us to address challenges associated with feeding the burgeoning global population in the context of a changing climate that will stress many crops with heat and either drought or flooding, attack from ever-evolving pathogens and pests, and limits on agricultural practices that threaten boundary conditions for planetary stability. Our scientists address needs that range from strengthening regional economies—from farm to market—to making urban environments more livable right here in New York State and around the globe.

Our faculty, students, and staff discover, disseminate, and apply knowledge about

- food and energy systems,
- the life sciences,
- the environmental sciences,
- and the social sciences

as a basis for sustainable improvement in the lives of people throughout New York, the nation, and the world.

Through our curriculum and experiential opportunities, CALS develops leadership ability, civic responsibility, and curiosity in its students. Through our research, CALS makes invaluable contributions to an ever-increasing knowledge base. Through Cornell Cooperative Extension and other outreach mechanisms, we serve the public directly, sharing knowledge and improving lives around the world. In all facets of our mission, CALS honors the past, is engaged in the present, and helps shape the future.
Agricultural Sciences
Get a broad overview of agriculture, as well as more intense study and hands-on experience in one of five concentrations: animal science; crop production and management; sustainable agriculture; applied economics and management; education and communication.

Animal Science
Prepare for study in veterinary medicine or careers in animal production, biotechnology, and conservation, in a program that has been nationally recognized in animal breeding and genetics, nutrition, physiology, growth, behavior, and management.

Applied Economics & Management
The Charles H. Dyson School of Applied Economics and Management provides management education and the opportunity to specialize in accounting, agribusiness management, applied economics, entrepreneurship, environmental and resource economics, finance, food industry management, international trade and development, marketing, or strategy.

Atmospheric Science
Examine the behavior of weather and climate, and gain experience in the analysis, interpretation, and forecasting of meteorological events.

Biological Engineering
Integrate engineering and biology to solve some of the challenges facing our world, such as ensuring an adequate and safe food supply, protecting natural resources, and developing systems that monitor, replace, or intervene in the mechanisms of living organisms.

Biological Sciences
Study the fundamentals of biology while concentrating on: animal physiology; biochemistry; computational biology; ecology & evolutionary biology; genetics & development; insect biology; marine biology; microbiology; molecular & cell biology; neurobiology & behavior; nutrition; plant biology; and systematics & biotic diversity.

Biology & Society
Examine the social, political, and ethical aspects of modern biology, research, and practice.

Biometry & Statistics
Apply statistics, mathematics, computing, and other methods to solve problems in diverse fields, from the life and social sciences to business and finance.

Communication
Study communication processes and put theory to use in understanding audiences, shaping messages, and interacting with individuals and technologies. Focus areas include: environmental, science and health; media studies; information technologies; and social influence.

Development Sociology
Contribute to understanding societal development and factors to solve social problems, both local and global, in a program that is well known for international, domestic, rural, environmental, agricultural, and population studies.

Entomology
Get an education in biological and environmental sciences, with a special emphasis on insects—the most diverse group of organisms on Earth. The Department of Entomology was the first of its kind in the U.S, and remains one of the largest programs in the nation.

Environmental Engineering
Prepare for careers in the technical management of natural resources, including work in water, soil, and air quality, in a program that incorporates engineering and the study of the natural environment.

Environmental & Sustainability Sciences (Proposed)
Gain a comprehensive and integrated view of the biological, physical-chemical, ecological, and social dimensions of environmental and natural resource issues. Concentrations include: environmental biology & applied ecology; environmental policy & governance; environmental economics; biogeochemical sciences; or a student-designed concentration.

Food Science
Explore food systems from processing and packaging to distribution, evaluation, and safety, and solve real-world problems by combining chemistry, microbiology, nutrition, and engineering. Focus on food science or food operations and management.

Global and Public Health Sciences
Explore multidisciplinary solutions for population-level health issues, with a focus on disease prevention and health promotion, epidemiology and biostatistics, and resource-challenged environments.

Information Science
Examine the cultural, economic, historical, legal, and political contexts in which information systems are employed and understand their impact on individuals and institutions. Areas of study include: human-centered systems; social systems; information systems.

International Agriculture & Rural Development
Learn about the challenges and opportunities that exist in less-developed countries, with concentrations in economics and development, agricultural food systems, and environment and ecosystems. Overseas experiences and studies are incorporated into the major.

Landscape Architecture
Design outdoor areas including parks, restored wetlands, urban plazas, historic sites, and botanical gardens. Also work in urban development, land use planning, conservation, historic preservation and ecological designs.

Nutritional Sciences
Understand relationships among human health and well-being, food and lifestyle patterns, food quality and agricultural systems, and social and institutional environments, while drawing on chemistry, biology, and social sciences. Focus on: human nutrition; community nutrition; international nutrition; and molecular nutrition.

Plant Sciences
Study the biology, growth and development of plants, as well as the use of plants for food, fiber and ornamental purposes. Concentrations include: evolution, systematics and ecology; plants and human health; plant genetics and breeding; plant physiology and molecular biology; and sustainable plant production and landscape management.

Science of Earth Systems
Build the foundation for the future management of our planet by studying the Earth’s system, with a focus on understanding and managing the resources of the lithosphere, biosphere, hydrosphere, and atmosphere.

Viticulture & Enology
Prepare to become a leader in the wine industry. The program includes coursework in winemaking, vineyard development, economics, and management.