NUTRITION
Degree: B.S.
Director: Dr. John Worobey
(worobey@sebs.rutgers.edu)

Encompasses all aspects of an organism’s interaction with food - biochemical, physiological, molecular, psychological, cultural and social aspects of food choice and nutrient metabolism. Offers following options/prep areas: Dietetics (Accredited Didactic Program in Dietetics), Nutrition (Research/Advanced Science Studies), and Food Service Administration (Management/Marketing), as well as Community Nutrition (Educational/Professional Youth Work) and Nutrition, Food & Business (Food & Related Industry).

PLANT BIOLOGY
Degree: B.S.
Director: Dr. Ann Gould
(ann.gould@rutgers.edu)

Prepares students for careers or further study in areas related to food, fiber, turfgrass, ornamental plant production, pest management, plant breeding, plant pathology, or horticultural therapy. The curriculum offers three options: Horticulture and Turf Industry, Plant Research, and Horticultural Therapy. Prepares students for careers in Business, Research Labs, Education, Horticultural Therapy, or Plant Protection and for graduate study.

S c h e d u l e  o f  E v e n t s
8:00 a.m.—8:30 a.m.
Coffee and Registration
8:30 a.m.—8:45 a.m.
Welcome and Program Overview
8:45 a.m.—9:45 a.m.
First Year Admissions or Transferring into SEBS
10:00 a.m.—10:45 a.m.
Presentation Session 1
11:00 a.m.—11:45 a.m.
Presentation Session 2 or Cook Farm or Floriculture Tour
11:30 a.m.—1:30 p.m.
Rutgers Service and Club Fair/Lunch
12:00 p.m.—12:45 p.m.
Scholarships, Honors, and Financial Aid (Lunch Session)
12:45 p.m.—1:30 p.m.
Educational Opportunity Fund (Lunch Session)
1:45 p.m.—2:30 p.m.
Presentation Session 3
2:45 p.m.—3:30 p.m.
Student Panel/Q & A

Get Prepared for Life

Studying at Rutgers
School of Environmental and Biological Sciences

For links to descriptions of all available SEBS Academic Programs visit:
http://sebs.rutgers.edu/academics

Majors and Programs represented at Open House:

AGRICULTURE AND FOOD SYSTEMS
Degree: B.S.
Director: Dr. Xenia Morin
(xenia.morin@rutgers.edu)

Flexible program for those interested in an entrepreneurial and innovative education in the agricultural sciences, spanning the entire range from production to table. Prepares students for careers in agribusiness, government service and agricultural education and extension, as well as those preparing to be owner/operators of farms.

ANIMAL SCIENCE
Degree: B.S.
Director: Dr. Aparna Zama
(zama@rutgers.edu)

Provides training and career development for animal biology or related fields including veterinary medicine, biomedical research, laboratory animal care, horse management, agribusiness, and livestock production and management. Options in: Pre-veterinary Medicine/Research, Laboratory Animal Science, Production Animal Science, Equine Science, and Companion Animal Science.
Integrated education in biochemistry and its applications to biological systems. Curriculum follows the recommendations of the American Society for Biochemistry and Molecular Biology (ASBMB) and has components of both a traditional course-centered approach to teaching and current content and outcome-centered approach. Prepare students for advanced degrees or careers in the pharmaceutical, biotechnological and chemical industries, government service, communications, law and many other fields. Options in Biochemistry of Microbial Systems, Biochemical Toxicology, Biochemistry of Plant Systems, Protein & Structural Biochemistry.

**Bioenvironmental Engineering (5 Yr.)**

**B.S.**
- School of Engineering; B.S., SEBS

**Director:** Dr. Uta Krogmann (krogmann@rutgers.edu)

Bioenvironmental Engineers utilize engineering principles and the physical, chemical and biological sciences to prevent and solve environmental problems. Graduates are employed by the federal government civil service requirements for classification as a meteorologist. Graduates pursue career paths in forecasting, research, broadcasting, and environmental consulting. Many pursue further study at the graduate level. Offers options in Operational Meteorology, Environmental Meteorology, and a Climate option.

**Biotechnology**

**B.S.**
- Dr. Paul Meers (paul.meers@rutgers.edu)

Provides fundamental knowledge and laboratory skills, focusing on molecular biology and genetics, underpinned by a firm foundation in biology, math, and physical sciences. Applies 21st Century technological skills and biological sciences in solving global and health issues, and to the diverse social issues related to biotechnology. Curriculum involves extensive laboratory and research experience, as well as a choice of specialization in one of the following fields: animal, microbial, and plant biotechnology; bioinformatics; and bioscience policy and management.

**Ecology, Evolution & Natural Resources**

**B.S.**
- Dr. Suzanne Sukhdeo (sukhdeo@rutgers.edu)

Builds a broad understanding of structure and function, significance, evolutionary processes, and modern tools for managing biotic natural resources. Studies how living systems function and evolve, and can be managed for biodiversity while providing benefits to people. Broad array of advanced courses field study, and research opportunities. Prepares students for careers in conservation and natural resource management, and further education in professional or graduate school.

**Environmental & Business Economics**

**B.S.**
- Dr. Edmund Tavernier (Edmund.Tavernier@rutgers.edu)

Program of study for students interested in careers in business and management. Students learn to think strategically about the business environment within which firms, government agencies and non-governmental organizations operate and devise appropriate responses to gain a strategic advantage within such an environment. Students learn core economic, management, financial and accounting concepts and how to apply economic theories and concepts concerning social issues, as well as the formulation of policy. Options in: Business Economics, Environmental and Natural Resource Economics, Food Industry Economics, and Food Science and Management Economics.

**Environmental Planning & Design**

**B.S.**
- Dr. Frank Gallagher (gallagher@sebs.rutgers.edu)

Emphasizes an understanding of planning and design as they apply to the function and management of the physical and cultural environment. Particular attention is given to the interactions between the natural and social systems. The program provides students with the ability to be competitive in the dynamic, and increasingly urban discipline of environmental planning and design. Particular Options in: Environmental Geomatics, Landscape Planning, Urban Forestry, and Landscape Industry.

**Environmental Sciences**

**B.S.**
- Dr. Lisa Rodenburg (lisa.rodenburg@rutgers.edu)

Applies biology, chemistry and physical sciences to problems in the environment. Options and electives allow specialization in the study of air, water, or soils, as well as pollution and treatment sciences, and environmental or occupational health studies. Options in Applied Environmental Science, Environmental Health, and Environmental Science.

**Environmental Policy, Institutions & Behavior**

**B.S.**
- Dr. George Clark (clark@aessop.rutgers.edu)

Examines human dimensions of environmental problems; adaptation to resource changes; and responses to environmental hazards. Explores local, regional and national differences in resource use; social and environmental aspects of health and illness; strategies for management; ethical, moral, and legal dimensions of environmental and resource issues; and roles of industry, governmental and non-governmental organizations in environmental affairs.

**Food Science**

**B.S.**
- Dr. Chitra Ponnusamy (chitra.ponnusamy@rutgers.edu)

Explores the chemical, biological, and engineering aspects of food and its components. Emphasizes problem-solving and the application of mathematical and scientific techniques to food. Examines issues, innovations, and ethics in food and food processing, and the development of food products. Offers options in Food Science Research, General Food Science, and Food Science and Management Economics.

**Landscaping Architecture**

**B.S.L.A.**
- Dr. Holly Nelson (holly.nelson@rutgers.edu)

Professional design curriculum leading to a degree that is recognized as a nationally accredited program by the American Society of Landscape Architects. Course offerings cover a diverse range of subjects including site planning and design, social factors in design, landscape history, architecture, design implementation, computer-aided design, horticulture, and plant ecology.

**Marine Sciences**

**B.S.**
- Dr. Gary Taghorn (taghorn@marine.rutgers.edu)

Examines the marine environment and its interactions with the earth, the biosphere, and the atmosphere. Builds knowledge of physics, geology and geophysics, mathematics, chemistry, and biology as they apply to marine processes and managing ocean resources wisely. Includes hands-on, experiential learning in the laboratory or the field or summer of supervised, independent research. Prepares students for graduate school, and careers in service environmental management, industry, and secondary science teaching. The five options within this major are: Marine Biology/Biological Oceanography, Marine Chemistry, Marine Geology, Physical Oceanography and Directed Marine Studies.

**Microbiology**

**B.S.**
- Dr. Constantino Vetriani (vetriani@imcs.rutgers.edu)

Emphasizes the uniqueness of microbial biology, diversity, and the biochemical basis of microbial life. Focuses on the examination of microorganisms; microbial processes in natural and managed environments; and their effects on human, animal, plant, and environmental health. Examines the microbial populations in aquatic and terrestrial ecosystems, the interactions within microbial communities, and biogeochemical cycles and energy flows.