Within the master of science in biology program, opportunity is provided for concentrated study and research in a variety of fields including cell and molecular biology, ecology, neuroscience, and physiology. Students who complete this master’s program have a number of opportunities. Some go directly into various positions of authority in business, at research institutions, in environmental management, or education. Others continue their education by going on to earn a Ph.D. or graduating from a professional school in such areas as medicine or other health-related fields.

Many members of the program’s faculty are also affiliated with M.S./Ph.D. programs in New Brunswick, such as cell and developmental biology, ecology and evolution, neurosciences, and plant biology. A number of students who earned the M.S. degree from this program have continued on in a Rutgers Ph.D. program with a Camden faculty mentor through enrollment in these University-wide programs. Recently, successful master’s students have also continued at Camden by enrolling in the Ph.D. program in computational and integrative biology.

ADMISSIONS REQUIREMENTS
• Online application (gradstudy.rutgers.edu/apply/overview)
• A transcript showing the completion of an undergraduate degree in the sciences, preferably in biology
• Three letters of reference
• A statement of personal, professional, and academic goals
• GRE scores
• Students are welcome, but not required, to submit supplemental materials, such as work or research experience, special skills, etc.

FUNDING OPPORTUNITIES
The Graduate School offers competitive funding opportunities in the form of fellowships, scholarships, and tuition remission awards. These awards are determined by the graduate department’s admissions committee and do not require an additional application. The biology program awards several teaching assistant positions each year. Awards are determined by the department’s admissions committee. No additional application is necessary to be considered for these positions.

DEGREE REQUIREMENTS
30 total credits

Plan A: The Thesis Requirement
Six credits are awarded under Plan A for a thesis based on investigation and completion of a research project. Of the remaining 24 credits, a minimum of 16 are required in graduate-level courses. Students enrolled under Plan A are encouraged, though not required, to report on their research at meetings of professional biologists and to publish results in a research journal.

Plan B: The Essay Requirement
Plan B does not include a thesis but requires the completion of a minimum of 30 credits in graduate-level courses and an essay focused on a current biology research interest. Students will have the opportunity to develop a concentration of 12 or more credits in cell biology, ecology, neuroscience, or plant and cell physiology.
Both Plan A and B
In both degree programs there is a final comprehensive examination that covers the general field of biology and emphasizes the student's area of concentration. Plan A also involves a thesis defense.

FACULTY AND RESEARCH AREA

- **John Dighton** (Ph.D., University of London) **professor; director, Rutgers Pinelands Field Station** | soil nutrient dynamics, forestry, mycorrhizae, fungi, environmental pollution
- **Robert C. Evans** (Ph.D., Ohio State University) **associate professor emeritus** | botany, plant and fungal physiology, science education
- **Andrey Grigoriev** (Ph.D., Institute of Genetics and Selection of Industrial Microorganisms, Moscow) **professor** | genome organization, evolution and manifestation, cancer
- **Eric Klein** (Ph.D., University of Pennsylvania) **assistant professor** | bacterial pathogenesis and microbial adhesion
- **Simeon Kotchoni** (Ph.D., University of Bonn) **assistant professor** | plant science
- **Hsin-yi Lee** (Ph.D., University of Minnesota) **professor II** | morphogenesis of early vertebrate embryo
- **Kwangwon Lee** (Ph.D., Texas A & M University) **associate professor** | circadian clock/light regulation, fungal genetics, fungal ecology, systems biology
- **Joseph V. Martin** (Ph.D., University of Southern California) **professor; director, Center for Computational and Integrative Biology** | hormonal regulation of GABAa receptor, brain activity and sleep
- **Patrick J. McIlroy** (Ph.D., University of California, Berkeley) **associate professor emeritus** | molecular endocrinology of ovarian function
- **Mark D. Morgan** (Ph.D., University of California, Davis) **professor; department chair** | aquatic ecology, biogeochemistry, Pine Barrens ecology, acid rain
- **Jongmin Nam** (Ph.D., Penn State University) **assistant professor** | molecular regulatory biology and evolution, cellular and embryonic development
- **William M. Saidel** (Ph.D., Massachusetts Institute of Technology) **associate professor; graduate program director** | sensory physiology, neuroethology, neuroanatomy, neural algorithms
- **Daniel H. Shain** (Ph.D., Colorado State University) **professor** | annelid development and evolution
- **Nir Yakoby** (Ph.D., Hebrew University, Israel) **assistant professor** | developmental genetics

PROGRAM HIGHLIGHTS

- Teaching and research laboratories are equipped with a variety of research-quality instrumentation that allows for basic and advanced procedures in cytological, physiological, molecular, ecological, and environmental analyses.
- The Pinelands Field Station acts as a center for the activities of members of the Division of Pinelands Research, which is an assemblage of Rutgers personnel who have a research interest in the New Jersey Pinelands.
- The Center for Computational and Integrative Biology brings together leading academics from the departments of biology, mathematics, computer science, chemistry, and physics.

Website: [biology.camden.rutgers.edu/graduate-program](http://biology.camden.rutgers.edu/graduate-program)

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