NJIT’s Department of Biological Sciences is federated with Rutgers University-Newark, an affiliation that offers comprehensive opportunities for study and research, with diplomas issued jointly by NJIT and Rutgers. Students thus benefit from the best of both universities. NJIT emphasizes the quantitative and technical aspects of biology, while the focus at Rutgers is on the cellular and molecular aspects of biology, as well as ecology and evolution. Ample opportunities to participate in research at the undergraduate and graduate levels include neural-network function, neuro-immunology, waves and diffusion of ions in the brain, respiratory physiology, population dynamics, and global climate and ecosystem change.

**NJIT Faculty**

**B**
Bucher, Dirk M., Associate Professor
Bunker, Daniel E., Assistant Professor

**F**
Flammang-Lockyer, Brooke E., University Lecturer
Fortune, Eric S., Associate Professor

**G**
Garnier, Simon J., Assistant Professor
Golowasch, Jorge P., Professor

**H**
Haspel, Gal, Assistant Professor

**N**
Nadim, Farzan, Professor

**R**
Russell, Gareth J., Associate Professor

**S**
Soares, Daphne F., Assistant Professor
Stanko, Maria L., University Lecturer

**T**
Trimby, Christopher M., University Lecturer

**W**
Wisner, Ellen M., University Lecturer

**Y**
Yarotsky, John J., University Lecturer

**Programs**


**Accelerated Programs** (http://catalog.njit.edu/undergraduate/academic-policies-procedures/special-degree-options)

• Biology - B.A./Physical Therapy - Ph.D. (http://catalog.njit.edu/undergraduate/science-liberal-arts/biology/ba-physical-therapy-phd)
• Biology - B.S./Clinical Laboratory Science (http://catalog.njit.edu/undergraduate/contact-department)

Double Majors (http://catalog.njit.edu/undergraduate/academic-policies-procedures/special-degree-options)

Biological Sciences Courses
BIOL 200. Concepts in Biology. 4 credits, 4 contact hours (4;0;0).
Prerequisites: MATH 107 or MATH 108 or Co-requisites: MATH 110, or MATH 111 or MATH 138. This course will introduce student to the study of biology at the beginning of their course of study. Central ideas in the biological sciences will be highlighted, with an emphasis on the process of scientific discovery and investigation. The course will provide the basis for more advanced coursework and learning experiences in the biological sciences as students delve into the curriculum of study.

BIOL 205. Foundations of Biology: Ecology and Evolution Lecture. 3 credits, 3 contact hours (3;0;0).
Prerequisite: BIOL 200 with a C or better, co-requisite BIOL 206. This introductory course considers the population level of biological organizations. Topics include Mendelian and population genetics, evolution, and ecology of populations and communities.

BIOL 206. Foundations of Biology: Ecology and Evolution Lab. 1 credit, 3 contact hours (0;3;0).
Prerequisite: BIOL 200 with a C or better, Co-requisite BIOL 205. The laboratory reinforces the topics covered in Foundations of Ecology and Evolution Lecture (Biol 205) lecture with hands-on activities and exposes students to current methods of research and analysis in these areas.

BIOL 222. Evolution. 3 credits, 3 contact hours (3;0;0).
Prerequisite: R120 101 and R120 102 and BIOL 205 and BIOL 206 with grade of C or better. This course will provide a comprehensive introduction to the field of evolutionary biology. Topics will include: the development of evolutionary theory, the history of the evolution of life on Earth, the genetic basis of variation and heredity, natural selection, evolution and development, and speciation.

BIOL 225. Insects and Human Society. 3 credits, 3 contact hours (3;0;0).
Prerequisite: R120 101 and R120 102 (General Biology sequence). This course, through lecture and discussion, will cover the breadth of influence insects have on society, from the provision of ecosystem services to the economic and social costs associated with their role as vectors of disease. Students will learn how insects are used in science, agriculture and indicators of global climate change and water quality. Students will also learn some insect biology and have the opportunity to observe insects (living and dead) to gain a better understanding of the diversity and complexity of these creatures.

BIOL 250. Biology of Neotropical Habitats: Ecuador and Galapagos Islands. 3 credits, 4 contact hours (2;2;0).
This course is an introduction to tropical biology and evolution held in Ecuador’s Highlands, Rain Forest, and in the Galapagos islands. The course uses a hands-on approach to study the flora and fauna of these unique habitats. The course also addresses the history, politics, and culture of Ecuador, with emphasis on how these issues influence the management and sustainability of Ecuadorian natural resources.

BIOL 285. Comparative Vertebrate Anatomy. 4 credits, 4 contact hours (3;1;0).
Prerequisites: R120:201 and 202 (Foundations of Biology: Cell and Molecular Biology); and BIOL 205 and BIOL 206 (Foundations of Biology: Ecology and Evolution), all with grades of C or better. This course introduces students to the groups of vertebrates and explores the anatomical evolution of vertebrates within the context of the functional interrelationships of organs and the changing environments to which vertebrates have adapted. An ideal entry point into the ways living creatures interact with their immediate physical world, we examine how the forms and activities of animals reflect the materials available to nature and consider rules for structural design under environmental forces.

BIOL 310. Work Experience I. 3 credits, 3 contact hours (0;0;3).
Prerequisites: Departmental approval and permission of the Office of Cooperative Education and Internships. Students gain major-related work experience and reinforcement of their academic program. Work assignments facilitated and approved by the co-op office. Mandatory participation in seminars and completion of a report. Note: Normal grading applies to this COOP Experience.
BIOL 315. Principles of Neurobiology. 3 credits, 3 contact hours (3;0;0).
Prerequisite: R120 201 and R120 202 and BIOL 205 and BIOL 206 with a grade of C or better. This course will review neuroscience concepts at a basic level. It will cover basics of cellular physiology, molecular biology and developmental biology of nerve cells, network physiology, behavior, cognition and memory and learning. This course will prepare students who are interested in a neuroscience sequence for their major.

BIOL 320. Discovering Biological Research. 3 credits, 3 contact hours (3;0;0).
Prerequisites: HUM 102, BIOL 201, BIOL 202, BIOL 205, BIOL 206 all with a grade of C or better. Success in the constantly evolving field of biology necessitates staying current in scientific literature. This requires competency in skills such as analysis of primary sources, synthesis of information from multiple sources, and oral and written communication skills. This course focuses on these competencies. Students will develop skills need to read and analyze scientific literature, and to communicate science. Each semester the content theme of the course will change depending on the expertise of the faculty member teaching the course.

BIOL 321. Comparative Vertebrate. 4 credits, 4 contact hours (3;1;0).
Prerequisites: R120 201, R120 202, BIOL 205 and BIOL 206, all with grades of C or better. This course introduces students to the groups of vertebrates and explores the anatomical evolution of vertebrates within the context of the functional interrelationships of organs and the changing environments to which vertebrates have adapted. An ideal entry point into the ways living creatures interact with their immediate physical world, we examine how the forms and activities of animals reflect the materials available to nature and consider rules for structural design under environmental forces.

BIOL 337. Collective Intel in Biol Syst. 3 credits, 3 contact hours (3;0;0).
Prerequisite: R120 202, BIOL 205 and BIOL 206 with a grade of C or better. This course will provide an overview of the fundamental principles underlying the organization of animal and human societies. It will include detailed consideration of behavioral, social, and physical processes that are responsible for the coordination of activities in large animal and human groups and social.

BIOL 338. Ecology of the Dining Hall. 3 credits, 3 contact hours (3;0;0).
Prerequisites: R120 201 and R120 202 and BIOL 205 and BIOL 206 with a C or better. This course will use the examination of an on-campus ecosystem, the dining hall, as a framework for learning about a number of applied ecological concepts. We will investigate topics such as food webs, nutrient cycling, microbial ecology, and agroecology as they apply to the organisms and biological processes, present in our dining hall. Course work will involve extensive reading and discussion of scientific and popular literature, supplemented by regular class trips to the dining hall and related on-campus facilities.

BIOL 340. Mammalian Physiology. 4 credits, 6 contact hours (3;3;0).
Prerequisites: R120 201 and R120 202 and BIOL 205 and BIOL 206 with a grade of C or better. This course will review general principles of the function of the human body as a mammal, with emphasis on the function and regulation of neuromuscular, cardiovascular, respiratory, endocrine, digestive, and excretory systems. The goal is to provide students with the basic knowledge to understand how their own bodies operate.

BIOL 341. Introduction to Neurophysiology. 3 credits, 3 contact hours (3;0;0).
Prerequisite: R120 201 and R120 202 with a grade of C or better. This course will examine the physiology of neurons such as excitability, impulse conduction, synaptic communication and neural and synaptic plasticity. The objective is to provide students with a basic understanding of neural signaling and communication.

BIOL 342. Developmental Biology (Embryology). 3 credits, 3 contact hours (3;0;0).
Prerequisite: R120 201 and R120 202 and BIOL 205 and BIOL 206. Descriptive and experimental approaches to molecular, cellular and organismal changes during embryonic development; mechanisms of cell differentiation, organogenesis, morphogenesis, and pattern formation.

BIOL 344. Physiological Mechanisms. 3 credits, 3 contact hours (3;0;0).
Prerequisites: BIOL 340 or R120 340 with a grade of C or better. This course will utilize clinical (pathological) case studies to reinforce physiologic knowledge and provide students a strong basis for future studies in biomedical and health related fields.

BIOL 345. Comparative Physiology. 3 credits, 3 contact hours (3;0;0).
Prerequisites: BIOL 340 or R120 340 or (R120 141 and R120 142) with grades of C or better. We will use a comparative approach to examine the physiology of animals including major physiological systems, with an emphasis on vertebrates. Topics to be covered include metabolic, temperature, osmotic and ionic regulation; respiration and circulatory transport, digestive, muscle, nervous, and locomotor systems; endocrine regulation and biological rhythms. We will further examine how physiological systems are integrated and thus allow animals to respond, physiologically, in different environment.

BIOL 347. Lab Approaches in Neuroscience. 4 credits, 6 contact hours (3;3;0).
Prerequisite: BIOL 315 Students will perform neurophysiological experiments, including assembling neurophysiological equipment, preparing neural tissues, selecting and presenting stimuli, recording, analyzing, and interpreting data. Students will perform experiments of increasing technical complexity. Each will reinforce theoretical and practical concepts related to the amplification and sampling of biopotentials. A lecture part will prepare the students for the concepts relevant to the lab day, and a data discussion meeting will aid the students in analyzing and presenting the data.

BIOL 350. Immunology. 3 credits, 3 contact hours (3;0;0).
Prerequisites: R120 201, R120 202, BIOL 205 and BIOL 206 all with a grade of C or better. The objective of this course is to facilitate an understanding of preliminary knowledge of the immune system in humans and other mammals. Students will be able to translate a basic understanding of the immune system and how that knowledge translates to further understanding medicine, research topics in cell biology, and broad topics in public health policy.

BIOL 352. Genetics. 3 credits, 3 contact hours (3;0;0).
Prerequisite: Biol 200, or R120 201 or Biol 205/206 or R120, 102 or R120 201/202.
BIOL 368. The Ecology and Evolution of Disease. 3 credits, 3 contact hours (3;0;0).
Prerequisite: R120:201, R120:202, BIOL 205, and BIOL 206, and (MATH 111 or MATH 238) with grade of C or better. This course addresses those aspects of ecology and evolutionary biology most relevant to understanding the origin, dynamics and treatment of disease (both infectious and hereditary/genetic). The class will be a mixture of lecture and discussion of case studies. Material covered will include biology, mathematical models, and some aspects of human behavior.

BIOL 375. Conservation Biology. 3 credits, 3 contact hours (3;0;0).
Prerequisites: R120 201 and R120 202 and BIOL 205 and BIOL 206 with a grade of C or better. This course will provide a comprehensive introduction to the field of conservation biology, as well as philosophical and economic concerns.

BIOL 383. Neural Basis of Behavior. 3 credits, 3 contact hours (3;0;0).
Prerequisite: R120 201 and R120 02 and BIOL 205 and BIOL 206 with a grade of C or better. This lecture course explores the neural mechanisms underlying animal behavior. This course is intended for upper-level undergraduate students who have some background in biology, hence the prerequisite for Foundation of Biology. This course will also be of interest to graduate students interested in neuroscience, such as, students in the Quantitative Neuroscience (QNS) program, students in the Integrative Neuroscience (INS) program, and students at the Center for Molecular and Behavioral Neuroscience (CMB). It is unnecessary for the students to have taken animal behavior or neurobiology; however, these courses would be helpful.

BIOL 385. Evolution of Animal Behavior Laboratory. 3 credits, 4 contact hours (2;2;0).
Prerequisite: BIOL 205, BIOL 206, R120 201 and R120 202 with a grade of C or better. A lab course focusing on research in Animal Behavior. This course will cover foraging, predator avoidance, territoriality, and mate choice. Labs will be inquiry based with students designing experiments to test hypotheses concerning aspects of animal behavior.

BIOL 398. Visualizing Biology. 3 credits, 3 contact hours (3;0;0).
Prerequisites: Junior standing. This course aims to explore points of intersection between art and Biology. We will first explore important concepts of Biology in a lecture format with readings, based on popular science. Teams of students will develop a product based on their biological driven interests and artistic toolkits. Regular individualized meetings will be held between the instructor and each team. A written essay on the creative process and scientific significance of the selected topic will accompany the creative work. A final showcase of the products will be held at the end of the semester.

BIOL 400. Biology in Science Fiction. 3 credits, 3 contact hours (3;0;0).
Prerequisite: (R120 340 or BIOL 340 or R120 345) and (R120 355 or R120 356 or R120 352) with a grade of C or better. Popular science fiction media will be utilized to initiate thinking critically and creatively about the biological sciences; from the molecular level to whole organism physiology. Students will explore the potential biology of fictitious organisms, and determine real-life analogues. These topics will be used as a vehicle to improve scientific writing and to apply biological knowledge in a new and unique way.

BIOL 410. Work Experience II. 3 credits, 3 contact hours (0;0;3).
Prerequisite: BIOL 310. Restriction: departmental approval and permission of the Office of Cooperative Education and Internships. Students gain major-related work experience and reinforcement of their academic program. Work assignments facilitated and approved by the co-op office. Mandatory participation in seminars and completion of a report. Note: Normal grading applies to this COOP Experience.

BIOL 432. Intro to Comp Neuroscience. 3 credits, 3 contact hours (3;0;0).
Prerequisites: MATH 222; BIOL 315; BINFO 135 or CS101 or CS100 or CS115 (grade C or better in all prerequisites), or permission by instructor. Introduction to the modeling, computational and analysis techniques for single neurons and small neuronal networks. This course will approach cellular and small network neuroscience beginning with a review and understanding of outstanding problems in neuroscience. The course work will then focus on students developing an independent modeling/computational project around which neuroscience concepts will be discussed. The required knowledge of electric circuits and numerical tools for the solution of differential equations will be introduced as needed.

BIOL 436. Advanced Neuroscience Modeling. 3 credits, 3 contact hours (3;0;0).
Prerequisites: BIOL 432 or MATH 430 or permission by instructor. Modeling and computational analysis of biological neuronal networks. The course consists of lectures, and scientific paper presentations aimed at acquiring a clear understanding of the biological issues in systems neuroscience. Students will work on developing an independent modeling/computational project during the duration of the semester around which biological topics will be discussed.

BIOL 440. Cell Biology of Disease: Cells gone Bad!. 3 credits, 3 contact hours (3;0;0).
Prerequisites: (BIOL 340 or R120 340) and (R120 355 or R120 356) with a grade of C or better. This course will briefly review the normal physiology of mammals and humans and will then extensively explore the basis of many human diseases at the cellular level. The goal is to understand how alterations in normal functions of cells affect the function of the whole system by reviewing current research in the field of cell biology abnormalities.

BIOL 445. Endocrinology. 3 credits, 3 contact hours (3;0;0).
Prerequisites: (BIOL 340 or R120 340) and (R120 355 or R120 356) with a grade of C or better. This course will discuss endocrinology from both an anatomical and physiologic view. We will discuss synthesis, distribution and regulation of the entire human endocrine system. The goal is to provide students with a basic knowledge of the complex endocrine system.

BIOL 447. Systems Neurobiology. 3 credits, 3 contact hours (3;0;0).
Prerequisites: BIOL 315 with a grade of C or better. This course will examine, from a systems perspective, phenomena that relate to neuronal network activity and behavior. Neuronal systems will be studied in detail. The overall goal of the course is to provide students with the basic knowledge of the neurobiological basis of behavior.
BIOL 448. Neuropathophysiology: Nervous System Gone Bad!. 3 credits, 3 contact hours (3;0;0).
Prerequisites: BIOL 315 or BIOL 340 or R120 340 or BIOL 341 or R120 444 or BIOL 447 with a grade of C or better. This course will briefly examine the normal physiology of the nervous system and then would extensively explore the basis of many neuronal diseases. The goal is to understand how any alteration in normal functions of the nervous system affects the function of the whole system by reviewing current research in the field of nervous system abnormalities.

BIOL 451. Cell Physiology and Imaging. 4 credits, 4 contact hours (1;3;0).
Prerequisites: PHYS 111, PHYS 121 and R120 455. This course will examine cellular phenomena, such as subcellular structure, secretion, intracellular calcium regulation, etc., from a physiological perspective and using imaging techniques as a tool to understand them. Cell biology, and optics and the user of microscopes, will be discussed in detail.

BIOL 453. Applied Genetics & Genomics. 3 credits, 3 contact hours (3;0;0).
Prerequisite: BIOL 352. The objective of this course is to offer students an opportunity to explore how the field of Genetics has been shaped after the completion of the sequencing of the genomes of humans and a variety of other organisms. Students will be able to describe new technologies that are available in medicine, diagnostics and agriculture and evaluate the advantages and current obstacles of these technologies. Through the analysis of case studies and primary literature, students will acquire a real-life knowledge of genetic and genomic applications in the 21st century.

BIOL 462. Comparative Biomechanics. 3 credits, 3 contact hours (3;0;0).
Prerequisites: R120 201, R120 202, BIOL 205 and BIOL 206 all with a C or better. This course takes a comprehensive look at the mechanical aspects of life. We will examine how the forms and activities of animals and plants reflect the materials available to nature, consider rules for fluid flow and structural design, and explore how organisms contend with environmental forces. Drawing on physics, we look at how animals swim and fly, modes of terrestrial locomotion, organism responses to winds and water currents, circulatory and suspension-feeding systems, the relationship between size and mechanical design, and the links between the properties of biological materials (eg spider silk, jellyfish jelly, and muscle) and their structural and functional roles.

BIOL 470. Dynamic Prin in Systems BIOL. 3 credits, 3 contact hours (3;0;0).
Prerequisites: MATH 222, and BNFO 135 or CS100 or CS115 grade C or better, or permission by instructor. Introduction to the dynamic and computational modeling of biological systems, including chemical, biochemical, metabolic and genetic networks. The course includes the description of basic principles and case studies and provides the necessary mathematical and computational tools to understand the mechanisms underlying the dynamics of this type of networks. The necessary knowledge on the biology will be introduced during the course.

BIOL 475. Ecological Field Methods and Analysis. 3 credits, 3 contact hours (3;0;0).
Prerequisites: R120 280 or R120 370 with a C or better and permission of instructor. This field-orientated class will study animal and plant communities using a combination of field, laboratory and theory work. The goal of this course is to understand ecological principles and to introduce students to modern methodology for field work, the techniques and instruments used, as well as the theoretical basis for their application. Students will collect data, analyze them and report the results in written and oral format.

BIOL 491. Research and Independent Study. 3 credits, 3 contact hours (0;0;3).
Restriction: Departmental approval required. Research in Biology. Each student works under the supervision of a Biology or associated faculty member. A research paper and poster are required.

BIOL 492. Research and Independent Study. 3 credits, 3 contact hours (0;0;3).
Restriction: Departmental approval required. Research in Biology. Each student works under the supervision of a Biology or associated faculty member.

BIOL 495. Honors Seminar in Biology. 3 credits, 3 contact hours (3;0;0).
Prerequisite: BIOL 320 with a grade of C or better. The honors seminar allows students the opportunity to work closely with an instructor in a specific area of the instructor's expertise. Students will be required to bring together interests and skills developed in previous courses. Students make in-depth oral and written presentations. This course satisfies NJIT's Honors Capstone requirement.

Rutgers-Newark Courses

100-level courses do not apply to biology majors
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<th>Course Code</th>
<th>Course Title</th>
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