

Department of Natural Sciences

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Field Description

The Department of Natural Sciences is an integrated department offering a wide selection of courses in biology, chemistry, environmental studies, and physics. The mission of the department is threefold: (1) to engage all students in the scientific enterprise through hands-on learning, enabling them to become scientifically literate citizens who are able to make informed decisions about public policy issues; (2) to prepare students for admission to and success in graduate and professional schools and for entry into the scientific workforce; and (3) to provide research opportunities for Baruch College students.

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The Majors

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Biological Sciences

Whether you're a new student interested in the sciences, or a returning student planning a career change, the Department of Natural Sciences at Baruch's Weissman School of Arts and Sciences offers you flexible programs that can be tailored to suit your interests and to help you achieve your career goals. The Biological Sciences Major offers a rich variety of courses in biology, chemistry, and environmental studies. Students, in consultation with a faculty advisor, may design programs that prepare them for careers or advanced studies in many science and health-related fields.

In small classes, students receive personal attention from faculty, who are recognized experts in their fields. Advanced students can participate in faculty research projects on campus or at institutions where Baruch professors have collaborative arrangements. These research activities not only provide a unique learning experience, but students can earn academic credit as independent study and honors courses. One semester (4 credits) of independent study or honors research may be included in the major elective courses for students planning on professional education in health care fields. Two semesters (8 credits) may be approved by the department for students planning on graduate education toward careers in research.

Interested students should contact the Department of Natural Sciences at 646 660-6250.

Base Curriculum Courses*No credit toward the major/specialization*

BIO 2010	Principles of Biology I	4.5 credits
CHM 2003	General Chemistry I	4 credits
MTH 2003	Pre-calculus and Elements of Calculus *	3 credits

or

MTH 2009	Precalculus	3 credits
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or

	A more advanced calculus course	3-4 credits
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*** Please note:** Students with credit for *MTH 2000* or *MTH 2001* must complete a calculus course, typically, *MTH 2207*.**Program Prerequisites**

16.5 – 17.5 credits

BIO 3001	Principles of Biology II	4.5 credits
CHM 3001	General Chemistry II	4 credits
CHM 3003	Principles of Organic Chemistry I	4 credits
PHY 2003	General Physics I	4 credits

or

PHY 3010	Quantitative Physics I	5 credits
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Required Courses

7 credits

PSY 2100	Statistics for Social Sciences (<i>formerly STA 2100</i>)	3 credits
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or

STA 2000	Business Statistics	3 credits
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or

BIO 2100	Biostatistics (ENV 2100)	3 credits
BIO 3015	Principles of Genetics	4 credits

Electives

19 – 20.5 credits

Electives are based on students' interests and future goals, and are chosen in consultation with a faculty advisor. The major includes five elective courses, at least two of which must be at the 4000-level or higher, chosen from the following list:

BIO 3005	Molecular and Cellular Biology	4 credits
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BIO 3009	Conservation Biology and Sustainable Development (ENV 3009)	4.5 credits
BIO 3010	Comparative Vertebrate Anatomy	4 credits
BIO 3012	Endocrinology	4 credits
BIO 3020	Biology of Invertebrates (ENV 3020)	4 credits
BIO 3030	History and Evolution of Life (ENV 3030) <i>effective spring 2019 course title changes to: Principles of Evolution: Processes, Patterns, and the History of Life</i>	4 credits
BIO 3035	Introduction to Molecular Biotechnology	4 credits
BIO 3040	Plants in Action	4 credits
BIO 4004	Microbiology	4 credits
BIO 4010	Human Physiology	4 credits
BIO 4015	Developmental Biology	4 credits
BIO 5000-5004	Independent Study	3-4 credits
BIO 6001H-6003H	Honors	4 credits
CHM 4010	Medicinal Chemistry	4 credits
CHM 4900	Biochemistry	4 credits
CHM 5000-5004	Independent Study	3-4 credits
CHM 6001H-6003H	Honors	4 credits
ENV 3001	Introduction to Environmental Science	4 credits
ENV 3002	Energy Conservation	4 credits
ENV 3003	Human Conservation	4 credits
ENV 3005	Economic and Legal Aspects of Ecology	4 credits
ENV 3006	Global Ecology	4 credits
ENV 3008	Air and Water Pollution	4 credits
ENV 3015L	Tropical Reef Ecology (plus lab ENV 3015)	3 credits
ENV 3050	Freshwater Ecology (BIO 3050)	4 credits
ENV 4005	Ecosystem Sustainability	4 credits
ENV 4020	Microbial Ecology	4 credits
ENV 4900	Topics in Environmental Science	4 credits

ENV 5000-5004	Independent Study	3-4 credits
ENV 6001H-6002H	Honors	4 credits

Arts And Sciences Ad Hoc Major in Natural Science Areas

When a student's educational objectives cannot be fully attained solely by study within an existing department, program, or school, he or she is given the option of devising an ad hoc pattern of courses in an area of concentration of his or her own choosing. A student may embark upon an ad hoc major following preparation and acceptance of a proposal outlining the area of study, the desired outcomes, and the educational values of the program. The program must be approved by the Office of the Associate Dean, Weissman School of Arts and Sciences.

The Department of Natural Sciences offers a pre-professional specialization that enables students to include chemistry and physics courses as part of an arts and sciences ad hoc major. Students prepare for entry into professional schools of medicine, dentistry, and other health care fields; graduate study in biological sciences; and teaching of biology, chemistry, and general sciences. Students combine basic courses in chemistry and physics with advanced electives.

The department also offers a specialization in environmental studies as part of an arts and sciences ad hoc major. This major includes a variety of courses in the sciences and additional courses from the Weissman School of Arts and Sciences, the Zicklin School of Business, and the Marxe School of Public and International Affairs. This ad hoc major integrates ecological principles in the dual context of science and society.

Prospective students are urged to register with the office of the Department of Natural Sciences early in their college careers. Each student will be assigned an individual advisor who will assist in formulating the specific ad hoc major program designed to attain the desired educational objectives. The department can be contacted at 646-660-6200.

The Weissman School of Arts and Sciences ad hoc major requires 30 – 33 credits.

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The Minors

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Chemistry

Students may wish to minor in chemistry in order to pursue general intellectual interests or specific career objectives. For example, students can complete the chemistry courses required for admission to medical school by doing a minor in chemistry. The chemistry minor will consist of two chemistry courses at the 3000-level or above, followed by a capstone course at the 4000-level. The capstone course must be taken at Baruch College. All chemistry courses at the 4000-level or above (including independent study and honors) offered by the Department of Natural Sciences may serve as the capstone. Interested students should contact the department.

Examples of possible course sequences in the chemistry minor:

Biochemistry

CHM 3001 General Chemistry II

CHM 3003 Principles of Organic Chemistry I

CHM 4900 Biochemistry (co-requisite of CHM 3006—Principles of Organic Chemistry II)

Medicinal Chemistry

CHM 3001 General Chemistry II

CHM 3003 Principles of Organic Chemistry I

CHM 4010 Medicinal Chemistry (co-requisite of CHM 3006—Principles of Organic Chemistry II)

Natural Sciences Minor

Students may wish to minor in natural sciences in order to pursue general intellectual interests or specific career objectives. For example, students can complete some of the science courses required for admission to medical school by doing a minor in natural sciences. For the natural sciences minor, students take two natural sciences courses at the 3000 level or above, followed by a capstone course at the 4000 level. The capstone course must be taken at Baruch College. All 4000- level courses offered by the Department of Natural Sciences or an independent studies course may serve as the capstone. Interested students should contact the department.

Interdisciplinary Minor in Environmental Sustainability

The Department of Natural Sciences, the Weissman School of Arts and Sciences, and the Zicklin School of Business offer a joint interdisciplinary program in environmental sustainability. This minor is suitable for both business and liberal arts students who have an interest in developing a critical understanding of interactions between human society and the broader global ecosystem. The program emphasizes economic, legal, and philosophical issues of environmental sustainability.

The prerequisite to this minor is completion of one of the following options: **1)** ENV 1020; or **2)** ENV 1003L *and* ENV 1004; or **3)** BIO 1003; or **4)** BIO 1015 *and* BIO 1016; or **5)** BIO 3001.

To complete the minor in environmental sustainability (11--12 credits) students must take one course at the 3000-level or above in environmental studies (ENV) offered by the Department of Natural Sciences, any other course from the electives listed below, and a required capstone course (ENV 4005 or 4900).

Program Prerequisite

ENV 1020	Principles of Ecology	4 credits
<i>or</i>		
ENV 1003L	Fundamentals of Ecology	3 credits
ENV 1004	Fundamentals of Ecological Research	3 credits
<i>or</i>		
BIO 1003	Survey of the Living World	4 credits
<i>or</i>		
BIO 1015L	Fundamentals of Biology - Genetics, Evolution, and Ecology	3 credits

BIO 1016	Fundamentals of Biology - Laboratory Research in Genetics, Evolution, and Ecology	3 credits
or		
BIO 3001	Principles of Biology II	4.5 credits

Required Capstone Course

ENV 4005	Ecosystem Sustainability	4 credits
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or

ENV 4900	Topics in Environmental Science	4 credits
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Electives

BIO 3009	Conservation Biology and Sustainable Development (ENV 3009)	4.5 credits
BIO 3016	Environmental Modeling (ENV 3016)	4 credits
BIO 3020	Biology of Invertebrates (ENV 3020)	4 credits
BIO 3030	History and Evolution of Life (ENV 3030) <i>effective spring 2019 course title changes to: Principles of Evolution: Processes, Patterns, and the History of Life</i>	4 credits
BIO 3040	Plants in Action	4 credits
BIO 3050	Freshwater Ecology (ENV 3050)	4 credits
CIS 3700	Green IT	3 credits
ENV 3001	Introduction to Environmental Science	4 credits
ENV 3002	Energy Conservation	4 credits
ENV 3003	Human Conservation	4 credits
ENV 3005	Economic and Legal Aspects of Ecology	4 credits
ENV 3008	Air and Water Pollution	4 credits
ENV 3015/ ENV 3015	Tropical Reef Ecology (Lecture and Lab)	4 credits
ECO 3511	Contemporary Economic Development	3 credits
GEOG 3009	Introduction to Human Geography (ANT 3009)	3 credits
GEOG 3036	World Regional Geography (ANT 3036)	3 credits
JRN 3800	Environmental Reporting	3 credits

LAW 3122	Law and the Environment	3 credits
LAW 3400	Law, Business and Sustainability	3 credits
PAF 3442	The Environment, Political Choices, and Public Policy	3 credits
PHI 3200	Environmental Ethics	3 credits
POL 3317	The Politics of Energy and the Environment	3 credits
PSY 3185	Environmental Psychology	3 credits

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Physics

The physics minor is suitable for students with an interest in the application of mathematical tools to fundamental scientific laws. The program emphasizes both mathematical ideas and classic experiments. To satisfy the minor, students must take three courses, two at the 3000-level or above, and a capstone at the 4000-level or above.

Tracks are not required, but examples of possible course sequences in the physics minor are:

Biomedical Track

- [PHY 3001](#) General Physics II
- [PHY 3500](#) Biological Applications to Physics
- [PHY 4130](#) Modern Physics

Astrophysics Track

- [PHY 3010](#) Quantitative Physics I
- [PHY 3020](#) Quantitative Physics II
- [PHY 4201](#) Astrophysics

Particle Physics Track

- [PHY 3010](#) Quantitative Physics I
- [PHY 3020](#) Quantitative Physics II
- [PHY 4140](#) Nuclear and Particle Physics

Computational Physics and Finance Track

- [PHY 3004](#) Physics on the Computer with Python
- [PHY 3020](#) Quantitative Physics II
- [PHY 4004](#) Statistical Physics with Applications to Mathematical Finance

Theoretical Physics Track

- [PHY 3010](#) Quantitative Physics I

- PHY 3020 Quantitative Physics II
- PHY 3200 Methods of Theoretical Physics - *Recommended*
- PHY 4130 Modern Physics

Students are free to construct their own minor from any set of three physics courses satisfying the general conditions for the minor. Physics courses at the 3000-level or higher at Baruch College include:

PHY 3001	General Physics II (Not open to students who have completed PHY 3006, PHY 3010 and/or PHY 3020)
PHY 3004	Physics on the Computer with Python (Not open to student who have completed PHY 3001 or PHY 3010)
PHY 3010	Quantitative Physics I [recommended] (Not open to students who have completed PHY 2003, PHY 3001, and/or PHY 3004)
PHY 3020	Quantitative Physics II [recommended] (Not open to students who have completed PHY 3001)
PHY 3200	Methods of Theoretical Physics
PHY 4004	Statistical Physics with Applications to Mathematical Finance
PHY 4130	Modern Physics
PHY 4140	Introduction to Nuclear and Particle Physics
PHY 4201	Astrophysics
PHY 5000-5004	Independent Study
PHY 6001H-6002H	Honors
Recommended Courses in the Department of Mathematics <i>Students are encouraged to take each of the following courses:</i>	
MTH 2610	Calculus I
MTH 3010	Elementary Calculus II
MTH 3020	Intermediate Calculus

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Natural Sciences Laboratory Equipment

Facilities for advanced studies in biology, chemistry, and physics are available on the Baruch campus. In addition to equipment standard to biology research, the Department of Natural Sciences has laboratories equipped for microbiology and microbial ecology, cell biology, ecology, and physiology.

A student research lab offers incubators, microscopes, balances, centrifuges, growth chambers, and water baths to permit a wide range of research. Computers for data analysis and presentation design are also available. Faculty research labs are dedicated to specific areas of inquiry: cell-cell communication, molecular systematics and evolutionary biology, and microbial ecology. Research facilities are available for prokaryotic and eukaryotic cell culture, growth and maintenance of various plant and invertebrate animal species, histology, video microscopy, DNA amplification, cell fractionation, and various standard biochemical techniques, including UV/visible spectroscopy, electrophoresis, and chromatography.

Laboratories in chemistry are equipped for specific areas of experimentation: general chemistry, environmental chemistry, organic chemistry, and organic synthesis (electrochemistry apparatus, dissolved oxygen meters, atomic absorption apparatus, and instruments for nuclear magnetic resonance, gas chromatography/mass spectroscopy, high-performance liquid chromatography, UV/visible spectroscopy, and infrared spectroscopy).

The physics area has a special computer lab for student research and a faculty laser optics research lab.

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Courses

Courses in Biology (BIO)

BIO 1003	Survey of the Living World	2 lecture hours; 4 lab hours; 4 credits
BIO 1005	General Biology - Structure and Function - A Human Orientation	2 lecture hours; 4 lab hours; 4 credits
BIO 1011L	Fundamentals of Biology: Human Biology Lecture	2 lecture, 1 recitation; 3 credits
BIO 1012	Fundamentals of Biology: Human Biology Laboratory	3 hours; 3 credits
BIO 1015L	Fundamentals of Biology - Genetics, Evolution, and Ecology	2 lecture, 1 recitation; 3 credits
BIO 1016	Fundamentals of Biology - Laboratory Research in Genetics, Evolution, and Ecology	3 hours; 3 credits
BIO 2010	Principles of Biology I	2 lecture hours; 1 recitation hour; 3 lab hours; 4.5 credits
BIO 2030	Population Biology: Evolution Ecology	2 lecture hours; 3 lab. hours; 1 recitation hour; 4.5 credits
BIO 2100	Biostatistics (ENV 2100)	2 lecture hours; 2 lab hours; 3 credits
BIO 3001	Principles of Biology II	6 hours; 4.5 credits
BIO 3002	Reading Science	1 hour; 1 credit
BIO 3005	Molecular and Cellular Biology	2 lecture hours; 4 lab. hours; 4 credits
BIO 3009	Conservation Biology and Sustainable Development (ENV 3009)	2 lecture hours; 1 recitation hour; 3 lab hours; 4.5 credits
BIO 3010	Comparative Vertebrate Anatomy	2 lecture hours; 4 lab. hours; 4 credits
BIO 3011	Developmental Biology	2 lecture hours; 4 lab. hours; 4 credits
BIO 3012	Endocrinology	2 lecture hours; 4 lab. hours; 4 credits

BIO 3015	Principles of Genetics	2 lecture hours; 4 lab. hours; 4 credits
BIO 3016	Environmental Modeling (ENV 3016)	2 lecture hours; 4 lab hours; 4 credits
BIO 3020	Biology of Invertebrates (ENV 3020)	2 lecture hours; 4 lab hours; 4 credits
BIO 3025	Human Physiology	2 lecture hours; 4 lab. hours; 4 credits
BIO 3030	-History and Evolution of Life (ENV 3030) <i>effective spring 2019 course title changes to: Principles of Evolution: Processes, Patterns, and the History of Life</i>	2 lecture hours; 1 recitation hour; 2 lab. hours; 4 credits
BIO 3035	Introduction to Molecular Biotechnology	2 lecture hours; 4 lab hours
BIO 3040	Plants in Action	2 lecture hours; 4 lab hours; 4 credits
BIO 3050	Freshwater Ecology (ENV 3050)	2 lecture hours; 4 lab hours; 4 credits
BIO 4004	Microbiology	2 lecture hours; 4 lab. hours; 4 credits
BIO 4010	Human Physiology	2 lecture hours; 4 lab. hours; 4 credits
BIO 4015	Development Biology	2 lecture hours; 4 lab. hours; 4 credits
BIO 5000	Independent Study I	Hours and credits to be arranged
BIO 5001	Independent Study II	Hours and credits to be arranged
BIO 5052	Special Problems	4 hours; 4 credits
BIO 5053	Special Problems	4 hours; 4 credits
BIO 6001H	Biology Honors I	Hours to be arranged; usually 4 credits per semester
BIO 6002H	Biology Honors II	Hours to be arranged; usually 4 credits per semester
BIO 6003H	Biology Honors III	Hours to be arranged; usually 4 credits per semester

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Courses in Chemistry (CHM)

CHM 1000	Chemistry and the Environment	2 lecture hours; 4 lab. hours; 4 credits
CHM 1003L	Fundamentals of Chemistry	3 hours; 3 credits
CHM 1004	Fundamentals of Chemical Laboratory Techniques	3 hours; 3 credits
CHM 1005	Select Topics in Chemistry	1 hour; 1 credit
CHM 2003	General Chemistry I	2 lecture hours; 4 lab. hours; 4 credits

CHM 3001	General Chemistry II	2 lecture hours; 4 lab. hours; 4 credits
CHM 3003	Principles of Organic Chemistry I	2 lecture hours; 4 lab. hours; 4 credits
CHM 3006	Principles of Organic Chemistry II	2 lecture hours; 4 lab. hours; 4 credits
CHM 4003	Physical Chemistry I	2 lecture hours; 4 lab. hours; 4 credits
CHM 4004	Physical Chemistry II	2 lecture hours; 4 lab. hours; 4 credits
CHM 4010	Medicinal Chemistry	3 lecture hours; 3 lab hours; 4.5 credits
CHM 4900	Biochemistry	2 lecture hours; 4 lab. hours; 4 credits
CHM 5000	Independent Study I	Hours to be arranged; usually 4 credits per semester
CHM 5001	Independent Study II	Hours to be arranged; usually 4 credits per semester
CHM 5002	Independent Study III	Hours to be arranged; usually 4 credits per semester
CHM 6001H	Honors Chemistry I	4 hours; 4 credits
CHM 6002H	Honors Chemistry II	4 hours; 4 credits
CHM 6003H	Honors Chemistry III	4 hours; 4 credits

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Courses in Environmental Science (ENV)

ENV 1003L	Fundamentals of Ecology	3 hours; 3 credits
ENV 1004	Fundamentals of Ecological Research	3 hours; 3 credits
ENV 1020	Principles of Ecology	2 lecture hours; 4 lab. and field hours; 4 credits
ENV 1021	Environmental Conservation	2 lecture hours; 4 lab. and field hours; 4 credits
ENV 2100	Biostatistics (BIO 2100)	2 lecture hours; 2 lab hours; 3 credits
ENV 3001	Introduction to Environmental Science	3 lecture hours; 2 lab. hours; 4 credits
ENV 3002	Energy Conservation	3 lecture hours; 2 lab. hours; 4 credits
ENV 3003	Human Conservation	3 lecture hours; 2 lab. hours; 4 credits
ENV 3005	Economic and Legal Aspects of Ecology	3 lecture hours; 2 lab. hours; 4 credits
ENV 3006	Global Ecology	3 lecture hours; 2 lab. hours; 4 credits
ENV 3008	Air and Water Pollution	3 lecture hours; 2 lab. hours; 4 credits

ENV 3009	Conservation Biology and Sustainable Development (BIO 3009)	2 lecture hours; 1 recitation hour; 3 lab hours; 4.5 credits
ENV 3015	Tropical Reef Ecology Laboratory	4 lab hours; 0 credits
ENV 3015L	Tropical Reef Ecology	3 credits; 1 lecture hour
ENV 3016	Environmental Modeling (BIO 3016)	2 lecture hours; 4 lab hours; 4 credits
ENV 3020	Biology of Invertebrates (BIO 3020)	2 lecture hours; 4 lab hours; 4 credits
ENV 3030	History and Evolution of Life (BIO 3030) <i>effective spring 2019 course title changes to: Principles of Evolution: Processes, Patterns, and the History of Life</i>	2 lecture hours; 1 recitation hour; 2 lab. hours; 4 credits
ENV 3050	Freshwater Ecology (BIO 3050)	2 lecture hours; 4 lab hours; 4 credits
ENV 4005	Ecosystem Sustainability	3 lecture hours; 2 lab hours; 4 credits
ENV 4020	Microbial Ecology	2 lecture hours; 4 lab. hours; 4 credits
ENV 4900	Topics in Environmental Science	3 lecture hours; 2 lab hours; 4 credits
ENV 5000	Independent Study I	Hours and credits to be arranged
ENV 5001	Independent Study II	Hours and credits to be arranged
ENV 5002	Independent Study III	Hours and credits to be arranged
ENV 3015L	Tropical Reef Ecology Laboratory	4 lab hours; 0 credits
ENV 6001H	Hon Env Stud I	Hours to be arranged; usually 4 credits per semester
ENV 6002H	Hon Env Stud II	Hours to be arranged; usually 4 credits per semester

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Courses in Physics (PHY)

PHY 1003	Concepts in Physics	3 lecture hours; 1 recitation hour; 2 lab hours; 4 credits
PHY 2001	Fundamentals of Experimental Physics	3 hours; 3 credits
PHY 2002L	Fundamentals of Physics: Theory and Practice	3 hours; 3 credits
PHY 2003	General Physics I	3 lecture hours; 1 recitation hour; 2 lab. hours; 4 credits
PHY 2005	Hyper complex Numbers with Applications in Physics	2 lecture hours; 1 recitation hour; 2 computer workshop hours; 4 credits
PHY 3001	General Physics II	3 lecture hours; 1 recitation hour; 2 lab. hours; 4 credits

PHY 3004	Physics on the Computer with Python	3 lecture courses; 3 lab hours; 4 credits
PHY 3010	Quantitative Physics I	4 lecture hours; 2 lab hours; 5 credits
PHY 3020	Quantitative Physics II	4 lecture hours; 2 lab hours; 5 credits
PHY 3200	Methods of Theoretical Physics	3 hours; 3 credits
PHY 3500	Biological Applications of Physics	6 hours; 4 credits
PHY 4004	Statistical Physics with Applications to Mathematical Finance	3 lecture hours; 3 lab hours; 4 credits
PHY 4130	Modern Physics	3 lecture hours; 3 lab hours; 4 credits
PHY 4140	Introduction to Nuclear and Particle Physics	3 hours; 3 credits
PHY 4200	Astrophysics	3 lecture hours; 1.5 lab hours; 1.5 field excursion hours; 4 credits
PHY 5000	Independent Study I	Hours and credits to be arranged
PHY 5001	Independent Study II	Hours and credits to be arranged
PHY 5002	Independent Study III	Hours and credits to be arranged
PHY 6001H	Honors Physics I	Hours to be arranged; usually 4 credits per semester
PHY 6002H	Honors Physics II	Hours to be arranged; usually 4 credits per semester

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