



**NJIT SETON HALL SCHOOL OF LAW:
SIX-YEAR ACCELERATED B.A. BIOLOGY SETON HALL J.D. LAW**

First Three Years Minimum Credits: 112

YEAR 1

Fall Semester		Cr.	Spring Semester		Cr.
HUM 101	English I	3	HUM 102	English Composition II	3
Math 111	Calculus I	4	Phys 121	Physics II	3
Phys 111	Physics I	3	Phys 121A	Physics II Laboratory	1
Phys 111A	Physics I Laboratory	1	Chem 124	General Chemistry Laboratory	1
Chem 125	General Chemistry I	3	Chem 126	General Chemistry II	3
BIOL 200	Concepts in Biology	4	R120:201/202	Foundations of Cell/Molec	4
Frsh Sem	Freshman Seminar	0	GUR Elective	Social Sciences ¹	3
		<u>18</u>			<u>18</u>

Summer Semester I

	Cr.
GUR Elective English and Cultural History ²	3
GUR Elective Social Sciences	3
	<u>6</u>

YEAR 2

Fall Semester		Cr.	Spring Semester		Cr.
Math 105	Probability & Statistics-GUR	3	Biology Elective	Cluster Elective - Functional Org.	4
BNFO 135	Bioinformatics I	3	Biology Elective	Cluster Elective - Ecol/Evol	3
BIOL 205/206	Foundation of Ecol/Evol	4	Chem 244	Organic Chemistry II	3
Chem 243	Organic Chemistry I	3	Chem 244A	Organic Chemistry Lab	2
Elective	Legal Studies	3	SS 300	Basic Prin of Law & Judicial Sys	3
GUR Elective	Physical Education	1	GUR Elective	Physical Education	1
		<u>17</u>			<u>16</u>

Summer Semester II

	Cr.
GUR Elective HSS Upper Level ³	3
GUR Elective Management ⁴	3
	<u>6</u>

YEAR 3

Fall Semester		Cr.	Spring Semester		Cr.
Biology Elective	Cluster Elective - Molec/Cell	3	Biology Elective	BIO Laboratory Elective	3
Biology Elective	BIO Laboratory Elective ⁵	4	Biology Elective	Biology Elective	3
Biology Elective	Biology Elective	3	GUR Elective	Honors Capstone - GUR	3
Elective	Legal Studies	3	Elective	Legal Studies	3
Elective	Legal Studies	3	Elective	Legal Studies	3
		<u>16</u>			<u>15</u>

Total Minimum Credits: 112



Biology Credits: 35

¹ Social Science Electives: EPS 202, ECON 201/265/266, STS 257/258, approved Rutgers courses.

² English & Cultural History: HUM 211, 212 or HIST 213, approved Rutgers courses.

³ HSS Upper Level: 300-level course in COM, ENG, HIST, LIT, PHIL, STS, THTR, or approved Rutgers courses.

⁴ Management Elective: Choice of HRM 301, MGMT 390, ENTR 410 or IE 492.

⁵ Laboratory Elective: Choice of one 3 credit and one 4 credit laboratory.



REQUIRED CORE BIOLOGY COURSES ~ 12 Credits

- ❑ R120/BIOL 200 Concepts in Biology* (4cr) **Effective from Fall 2011*
- ❑ R120:201 Foundations of Cell & Molecular Biology Lecture (3cr)
- ❑ R120:202 Foundations of Cell & Molecular Biology Lab (1cr)
- ❑ BIOL 205 Foundations of Ecology & Evolution Lecture (3cr)
- ❑ BIOL 206 Foundations of Ecology & Evolution Lab (1cr)

CONCEPT CLUSTER COURSES ~ 10 Credits

Accelerated Majors must complete **one course from each** of the following three concept cluster elective categories.

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| <ul style="list-style-type: none">❑ Ecological and Evolutionary Framework (3cr)
Evolution (BIOL 222)
Ecology (R120:280)
Animal Behavior (R120:282)
Plant Ecology (R120:370) | <ul style="list-style-type: none">❑ Molecular and Cellular Mechanisms (3cr)
Genetics (R120:352)
Cell Biology (R120:355)
Molecular Biology (R120:356)
Biochemistry (R120:360) |
| ↓ | ↓ |
| <ul style="list-style-type: none">❑ The Functional Organism (4cr)
Plant Kingdom (R120:211)
Biology of Seed Plants (R120:230)
Plant Physiology (R120:330) | <ul style="list-style-type: none">❑ The Functional Organism (4cr)
General Microbiology (R120:335)
Mammalian Physiology (R120/BIOL 340)
Developmental Biology & Lab (R120:342/343) |

LABORATORY/FIELD EXPERIENCE ~ 7 Credits

Accelerated Majors must complete **one 3 credit and one 4 credit lab** in this category:

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| <ul style="list-style-type: none">❑ Four Credit Laboratories (4cr)
Plant Kingdom (R120:211)
Biology of Invertebrates (R120:227)
Biology of Seed Plants (R120:230)
Comparative Vertebrate Anatomy (R120:285)
Taxonomy of Vascular Plants (R120:311)
Mycology (R120:313)
Animal Parasites & Parasitology Lab (R120:325/326) | <ul style="list-style-type: none">❑ Four Credit Laboratories (cont.)
Plant Physiology (R120:330)
General Microbiology (R120:335)
Mammalian Physiology (R120:340)
Developmental Biology & Lab (R120:342/343)
Microanatomy of Tissues (R120:405)
Plant Growth and Development (R120:430)
Cell Physiology and Imaging (BIOL 451) |
| <ul style="list-style-type: none">❑ Three Credit Laboratories (3cr)
Ecology of Birds (R120:328)
Field Plant Ecology (R120:371)
Field Ecology (R120:380) | <ul style="list-style-type: none">❑ Three Credit Laboratories (cont.)
Field Animal Ecology (R120:381)
Analytical Field Ecology (BIOL 475)
Tropical Field Ecology-2cr (R120:485) |

BIOLOGY ELECTIVES ~ 6 Credits

The courses listed below may be used to complete the **35 required credits of biology** course work, once approved by the Advisor:

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| <ul style="list-style-type: none">Animal Parasites (R120:325)Developmental Biology (R120:342)Comparative Physiology (R120:345)Neurobiology (R120/BIOL 346)Immunology (R120:350)Human Ecology (R120:365)Conservation Biology (BIOL 375)Neural Basis of Behavior (BIOL 383)Ecology and Evolution of Disease (BIOL 368)Biology of Cancer (R120:402)Biological Invasions (R120:422) | <ul style="list-style-type: none">Cell Biology of Disease (BIOL 440)Endocrinology (R120:445)Cellular and Systems Neuroscience (BIOL 447)Neuropathophysiology (BIOL 448)Molecular Cell Biology (R120:455)Virology (R120:456)Environmental Assessment (R120:472)Research and Independent Study (BIOL 491)Research and Independent Study (BIOL 492)Seminar in Biology (R120:493)Seminar in Biology (R120:494) |
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