



**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 <sup>1</sup>	3
		<u>18</u>			<u>18</u>

**Summer Semester I**

	Cr.
GUR Elective English and Cultural History <sup>2</sup>	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 <sup>3</sup>	3
GUR Elective Management <sup>4</sup>	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 <sup>5</sup>	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**

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

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

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

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

<sup>5</sup> 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.

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

### LABORATORY/FIELD EXPERIENCE ~ 7 Credits

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

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

### 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:

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