

Name: _____

ID#: _____

Email: _____

Biology Credits: 38 Total Minimum Credits: 112

1 Core Biology Courses - 12cr (Required)

		Prereqs	Sem	Grade
BIOL 200	Concepts in Biology (4cr)	△□	None	
R120:201	Found of Cell/Molec (3cr)	△□●	BIOL 200	
R120:202	Found of Cell/Molec Lab (1cr)	△□●	BIOL 200	
BIOL 205	Found of Ecol/Evol (3cr)	△□●	BIOL 200	
BIOL 206	Found of Ecol/Evol Lab (1cr)	△□●	BIOL 200	

2A Ecology and Evolution - 3cr (Choose one class)

BIOL 222	Evolution	△	101/102	
R120:280	Ecology	□	101/102	
R120:282	Animal Behavior	△	101/102	
R120:370	Plant Ecology	□	101/102	

2B Functional Organism - 4cr (Choose one class)

R120:211	Plant Kingdom	□	101/102	
R120:230	Biology of Seed Plants	△	201/202	
R120:330	Plant Physiology	△	201/202	
R120:335	General Microbiology	△	101/102	
R120:340	Mammalian Physiology	△□●	201/202	
R120:342/3	Developmental Biol & Lab	△	201/202	

2C Molecular and Cellular - 3cr (Choose one class)

R120:352	Genetics	□●	201/202	
R120:355	Cell Biology	□	201/202	
R120:356	Molecular Biology	△	201/202	
R120:360	Biochemistry	△●	201/202	

3 Bio Laboratory Courses - 7cr (Choose at least one 4-credit lab class)

↓ Four Credit Laboratories (4cr) ↓				
R120:211	Plant Kingdom	□	101/102	
R120:227	Biology of Invertebrates	△●	101/102	
R120:230	Biology of Seed Plants	△	201/202	
R120:285	Comparative Vertebrate Anatomy	△	101/102	
R120:311	Taxonomy of Vascular Plants	△	211 or 230	
R120:313	Mycology	△	101/102	
R120:325/6	Animal Parasites & Lab	□	201/202	
R120:330	Plant Physiology	△	201/202	
R120:335	General Microbiology	△	101/102	
R120:340	Mammalian Physiology	△□●	201/202	
R120:342/3	Developmental Biol & Lab	△	201/202	
R120:405	Microanatomy of Cells & Tissues	□	201/202	
R120:430	Plant Growth & Development	△□	201/202	
BIOL 451	Cell Physiology & Imaging	□	355, Phys 111	
↓ Three Credit Laboratories (3cr) ↓				
R120:328	Ecology of Birds	□	280 or 270	
R120:380	Field Ecology	□	280	
R120:371	Field Studies Plant Ecol		280 or 270	
R120:381	Field Studies Animal Ecol	△	280	
BIOL 475	Analytical Field Methods	△	280 or 270	
R120:486	Tropical Field Biology	●		

4 Biology Electives - 9cr

↓ Choose Three (3cr) Classes ↓				
R120:325	Animal Parasites		201/202+	
R120:342	Developmental Biology		201/202+	
R120:345	Comparative Physiology	□	R120-355/6	
R120:346	Neurobiology	□	R120:201	
R120:350	Immunology	□	201/202	
R120:365	Human Ecology	□	201/202	
BIOL 368	Ecol & Evolution of Disease	□	201/202	
BIOL 375	Conservation Biology		202 & 206	
BIOL 383	Neural Basis of Behavior	△□	201/202	
R120:402	Biology of Cancer	□	201/202	
R120:422	Biological Invasions		280 or 370 or 371	
BIOL 440	Cell Biology of Disease	△	340 & 355/356	
BIOL 445	Endocrinology	△	R120:340	
BIOL 447	Cellular & Systems Neuroscience		201/202	
BIOL 448	Neuropathophysiology	□	340	
R120:455	Molecular Cell Biology		R120-355/6	
R120:456	Virology	△□●	356	
R120:472	Environmental Assessment	△□●	370 or 371	
BIOL 491	Research and Independent Study			
BIOL 492	Research and Independent Study			
R120:493	Seminar in Biology			
R120:494	Seminar in Biology			

38 Required Biology Credits

Current Total: _____

5 Cognate Science Courses - 23cr

CHEM 124	General Chem Lab (1cr)	△□●	Chem 125	
CHEM 125	General Chemistry I (3cr)	△□●	Placement	
CHEM 126	General Chemistry II (3cr)	△□●	Chem 125	

CHEM 243	Organic Chemistry I (3cr)	△□●	Chem 126	
CHEM 244	Organic Chemistry II (3cr)	△□●	Chem 243	
CHEM 244A	Organic Chemistry Lab (2cr)	△□●	Chem 243	

PHYS 111	Physics I Lab (3cr)	△□●		
PHYS 111A	Physics I Lab (1cr)	△□●		
PHYS 121	Physics II (3cr)	△□●	Phys 111	
PHYS 121A	Physics II Lab (1cr)	△□●	Phys 111A	

23 Required Cognate Course Credits

Current Total: _____

△ Fall □ Spring ● Summer

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Biology Credits: 38 Total Minimum Credits: 112

General University Requirements for Joint Biology-MD, DMD, DDS, OD Accelerated Majors

6 English & Cultural History GUR - 9cr

	Course	Prereqs	Sem	Grade
English Composition: Writing, Speaking, Thinking I (3cr)	HUM 101	Placement		
English Composition: Writing, Speaking, Thinking II (3cr)	HUM 102	HUM 101		
GUR Elective: English and Cultural History ¹ (3cr)				

¹ Choice of HUM 211, HUM 212 or HIST 213; or any approved 200-level History course at Rutgers Newark.

7 Mathematics GUR - 7cr

	Course	Prereqs	Sem	Grade
Calculus I (4cr)	Math 111	Placement		
Elementary Probability & Statistics (3cr)	Math 105			

8 Computer Science GUR - 3cr

	Course	Prereqs	Sem	Grade
Programming for Bioinformatics I (3cr)	BNFO 135	Placement		

9 Physical Education GUR - 2cr

	Course	Prereqs	Sem	Grade
GUR Elective: Physical Education (1cr)				
GUR Elective: Physical Education (1cr)				

10 Basic Social Sciences GUR - 6cr

	Course	Prereqs	Sem	Grade
GUR Elective: Social Sciences ² (3cr)				
GUR Elective: Social Sciences ² (3cr)				

² Two Courses: EPS 202, ECON 201, ECON 265, ECON 266, STS 257, STS 258; or approved Social Science courses at Rutgers Newark.

11 Humanities and Social Science Upper Level GUR - 6cr

	Course	Prereqs	Sem	Grade
GUR Elective: HSS Upper Level Elective ³ (3cr)				
GUR Elective: HSS Upper Level Elective ³ (3cr)				

³ Two Courses: 300-level courses in COM, ENG, HIST, LIT, PHIL, STS, THTR; or approved 300-level or above HSS courses at Rutgers Newark.

12 Technical Electives GUR - 6cr

	Course	Prereqs	Sem	Grade
Technical Elective ⁴ (3cr)				
Technical Elective ⁴ (3cr)				

⁴ Three Courses: Any course in biology, chemistry, math or physics beyond major requirements. Any course in environmental science, computer science or engineering.

13 Management GUR - 3cr

	Course	Prereqs	Sem	Grade
GUR Elective: Management ⁵ (3cr)				

⁵ Management Elective: Choice of HRM 301, MGMT 390, ENTR 410 or IE 492.

14 Humanities and Social Science Senior Seminar GUR - 3cr

	Course	Prereqs	Sem	Grade
GUR Elective: HSS Senior Seminar ⁶ (3cr)				

⁶ Choice of HSS 403, 404, 405, 406, 407, 408, 409, 491.

15 GUR Open Elective - 6cr

	Course	Prereqs	Sem	Grade
1. Free Elective or COOP ⁷ (3cr)				
2. Free Elective (3cr)				

⁷ Students enrolled in the optometry program must complete one semester of Cooperative Education.

51 General University Requirement Credits

Current Total: _____

Notes and Comments: _____