

Name: _____

ID#: _____

Email: _____

Biology Credits: 38

Total Credits: 123

All biology and cognate courses require grades of C or better.

1 Core Biology Courses - 12cr (Required)

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

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

	Prereqs	Sem	Grade
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)

	Prereqs	Sem	Grade
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)

	Prereqs	Sem	Grade
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 (2cr)	●		

4 Biology Electives - 9cr

Choose Three (3cr) Classes		Prereqs	Sem	Grade
BIOL 225 Insects in Society		101/102		
R120:325 Animal Parasites		201/202+		
BIOL 338 Ecology of the Dining Hall	△	205/206		
BIOL 341 Introduction to Neurophysiology		201/202		
R120:342 Developmental Biology		201/202+		
BIOL 344 Physiological Mechanisms		340		
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 Systems Neuroscience		201/202		
BIOL 448 Neuropathophysiology	□	340		
R120:455 Molecular Cell Biology		355 & 356		
R120:456 Virology	△□●	356		
R120:472 Environmental Assessment	△□●	370 or 371		
BIOL 491/2 Research and Independent Study				
R120:493/4 Seminar in Biology				
BIOL 495 Honors Seminar in Biology	△□	320		

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 102 Physics I Lab (3cr)	△□●			
PHYS 102A Physics I Lab (1cr)	△□●			
PHYS 103 Physics II (3cr)	△□●	Phys 111		
PHYS 103A Physics II Lab (1cr)	△□●	Phys 111A		

Chem 121 and 122 are equivalent to Chem 125 and 126.

Placement test results determine the appropriate sequence of courses.

23 Required Cognate Science Credits

Current Total: _____

△ Fall □ Spring ● Summer

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GUR Credits: 62

Total Credits: 123

All biology and cognate courses require grades of C or better.

General University Requirements for B.A. Biology 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 - 9cr

	Course	Prereqs	Sem	Grade
General Calculus I (3cr)	Math 138	Placement		
General Calculus II (3cr)	Math 238			
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 Management GUR - 3cr

	Course	Prereqs	Sem	Grade
Principles of Management (3cr)	MGMT 390			

12 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.

13 Humanities and Social Science Senior Seminar GUR - 3cr

	Course	Prereqs	Sem	Grade
GUR Elective: HSS Senior Seminar ⁴ (3cr)				

⁴ Choice of HSS 403, 404, 405, 406, 407, 408, 409, 491.

14 Technical Electives - 9cr

	Course	Prereqs	Sem	Grade
Technical Elective ⁵ (3cr)				
Technical Elective ⁵ (3cr)				
Technical Elective ⁵ (3cr)				

⁵ Three Courses: Any course in biology, chemistry, math or physics beyond major requirements. Any course in environmental science, computer science or engineering.

15 Free Electives - 12cr

	Course	Prereqs	Sem	Grade
1. Free Elective (3cr)				
2. Free Elective (3cr)				
3. Free Elective (3cr)				
4. Free Elective (3cr)				

62 General University Requirement Credits

Current Total: _____

Notes and Comments: _____