

Name: \_\_\_\_\_

ID#: \_\_\_\_\_

Email: \_\_\_\_\_

**Biology Credits: 35   STS Credits: 37   Total Credits: 129**

*All biology, STS 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	
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 Cognate Math Courses - 3 or 4cr (Choose one class) <Focus 2>**

MATH 222	Differential Equations (4cr)	△□●	Math 112	
MATH 227	Mathematical Modeling (4cr)	△	Math 112	
MATH 337	Linear Algebra (3cr)	△□●	Math 112	
MATH 340	Applied Numerical Methods	△□	Math 211	

**5 Biology Elective\* - 3cr (Choose one class) <Focus 3>**

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**35 Required Biology Credits**

**Current Total:** \_\_\_\_\_

**6 Core STS Courses - 28cr (Required)**

		Prereqs	Sem	Grade
STS 101	Found of Science, Tech, Soc. (3cr)		None	
STS 257	Tech, Soc & Cult: American View (3cr)	△	None	
STS 258	Tech, Soc & Cult: Global View (3cr)	△□	None	
STS 301	Independent Study (1cr)	△□		
STS 304	Writing about STS (3cr)		HUM 102++	
STS 307	Research Methods in STS (3cr)	□	HUM 102++	
STS 310	Technology and Human Values (3cr)	□	HUM 102++	
PHIL 355	Philosophy of Science (3cr)	□	HUM 102+	
STS 490	Project and Seminar I (3cr)	△□		
STS 491	Project and Seminar II (3cr)	△□	STS 490	

**7 STS Electives\* - 9cr (Choose three classes)**

Focus 4				
Focus 5				
Focus 6				

**37 Required STS Credits**

**Current Total:** \_\_\_\_\_

**8 Cognate Courses (Core CS, Math and Science) - 33cr**

BNFO 136	Bioinformatics II (3cr)	△□	BNFO 135	
MATH 112	Calculus II (4cr)	△□●	Math 111	
MATH 211	Calculus IIIA (3cr) <Focus 1>	△□●	Math 112	
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	

*Chem 121, 122 and 123 are equivalent to Chem 125 and 126.*

*Phys 105, 106 and 121 are equivalent to Phys 111 and 121.*

*Placement test results determine the appropriate sequence of courses.*

**33 Required Cognate Course Credits**

**Current Total:** \_\_\_\_\_

△ Fall   □ Spring   ● Summer

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**General University Requirements for B.S. Biology-STS Double Majors**

**9 English & Cultural History GUR - 6cr**

	<i>Course</i>	<i>Prereqs</i>	<i>Sem</i>	<i>Grade</i>
English Composition: Writing, Speaking, Thinking I (3cr)	HUM 101	Placement		
English Composition: Writing, Speaking, Thinking II (3cr)	HUM 102	HUM 101		

**10 Mathematics GUR - 7cr**

	<i>Course</i>	<i>Prereqs</i>	<i>Sem</i>	<i>Grade</i>
Calculus I (4cr)	Math 111	Placement		
Elementary Probability & Statistics (3cr)	Math 105	Math 112		

**11 Computer Science GUR - 3cr**

	<i>Course</i>	<i>Prereqs</i>	<i>Sem</i>	<i>Grade</i>
Programming for Bioinformatics I (3cr)	BNFO 135	Placement		

**12 Physical Education GUR - 2cr**

	<i>Course</i>	<i>Prereqs</i>	<i>Sem</i>	<i>Grade</i>
GUR Elective: Physical Education (1cr)				
GUR Elective: Physical Education (1cr)				

**13 Management GUR - 3cr**

	<i>Course</i>	<i>Prereqs</i>	<i>Sem</i>	<i>Grade</i>
Principles of Management (3cr)	MGMT 390			

**14 Humanities and Social Science Senior Seminar GUR - 3cr**

	<i>Course</i>	<i>Prereqs</i>	<i>Sem</i>	<i>Grade</i>
GUR Elective: HSS Senior Seminar - Science, Technology, and Society (3cr)	HSS 408			

**24 General University Requirement Credits**

**Current Total:** \_\_\_\_\_

⌵ **5 Biology Electives\* - 3cr (Choose one class)**

**7 STS Electives\* - 9cr (Choose three classes)** ⌴

*The courses listed below may be used to complete the 35 credits of biology course work and 37 credits of STS course work, once approved by the Advisor:*

Insects and Human Society (BIOL 225)  
 Neurobiology (BIOL/R120:346)  
 Human Ecology (R120:365)  
 Physiology and Medicine (Math 371)  
 Population Biology (Math 372)

Introduction to Math Biology (Math 373)  
 Biological Ultrastructure (R120:403)  
 Light & Elect Microscope (R120:404)  
 Biological Invasions (R120:422)  
 Comp Neuroscience (Math 430)

Immunology (R120:443)  
 Endocrinology (R120:445)  
 Cell & Systems Neurosci (Biol 447)  
 Cell Physiology & Imaging (Biol 451)  
 Cellular Biophysics-4cr (R120:451)

Molecular Biotechnology-4cr (R120:452)  
 Molecular Cell Biology (R120:455)  
 Ecological Physiology (R120:471)  
 Systems Ecology (R120:487)  
 Problems in Biology-6cr (BIOL 491/492)

**Notes and Comments:** \_\_\_\_\_