ID#_____

B.S. in Biology: General Biology Concentration

Name: _____

I. Major Requirements	(44 h + Sen	ior Resear	ch)				
Category	Course			Grade	e Semester	Hrs Earned	Notes
Prin. Biology I (4 h)	BIOL 140			Orad	COMMONE	Larrica	140103
Prin. Biology II (4 h)	BIOL 141						
Genetics (4 h)	BIOL 240						
Ecology/Evolution (4 h)	BIOL 241						
Senior Research (≥3 h)	BIOL 480, 0	or BIOL 495	5-499				
Mathematics (4 h)	MATH 153	01 B10E 100	7 100				Prereq:
Gen. Chemistry I (4 h)	CHEM 139						MATH146
Gen. Chemistry II (4 h)	CHEM 140						
Org. Chemistry I (4 h)	CHEM 241						
Org. Chemistry II (4 h)	CHEM 242						
Physics I (4 h)	PHYS 130						
Physics II (4 h)	PHYS 131						
(4 H)	11110 101						
II. General Biology Con		Requireme	nts (25	5 h)			
Required (3 h)	BIOL 304						
Required (3 h)	BIOL 306						
Required (4 h)	BIOL 333						
CM Elective (3-4 h)							
EE Elective (3-4 h)							
OB Elective (3-4 h)							
BIOL Electives (sufficient							
to bring the total for the							
concentration up to at least 25 h; may be chosen from							
any course set including GB)							
III. 121 1 O(!! /00	1. \						
III. Liberal Studies (33	Course	Grade	Seme	ootor	Hrs Earned	Notes	
Category C1 - Writing (3 h)	ENGL 101		Seme	ester	nis cameu	Notes	
C1 - Writing (3 h) (3 h)	ENGL 101						
C2 - Mathematics (3 h)		y major rec	u iromo	nto			
1 1	COMM 20		quireme	nis			
C3 - Oral Comm. (3 h) C4 - Wellness (3 h)	COMM 20	1					
	Catiofied b	u maior roc	u iromo	nto			
C5 –Biol/Phys Sci (6 h)	Salisiled D	y major rec	uireme	ents	l e	Dissis	lina 1
P1 - Social Sci (3 h)						Discip Discip	
(3 h)						NOTE	
P3 - History (3 h)							
P4 - Humanities (3 h)							PECTIVE
P5 – Fine/Perf Arts (3 h)						MUST	R LEVEL
P6 - World Cultures(3 h) 1st Year Seminar (3 h)						UPPE	K LEVEL
1 st Year Seminar (3 h)							
IV. General Electives							
Category	Course	Grade	Seme	ster	Hrs Earned	Notes	

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Total Hours required:1 Liberal Studies	
Major Requirements	
General Electives	
Total	
Thirty hours at the 300/400 level?y	
Liberal Studies Upper Level Perspective?y	es no
No more than two non-Biology electives	
in concentration?y	
GPA of 2.0 or better in the major? y	es no

Upper-level Biology Elective Course Sets (course prefix is BIOL unless otherwise noted):

Cell and Molecular Biology (CM) Electives (3-4 h)

313, Microbiology in Health and Nutrition	(4 h)	421, Principles of Biotechnology	(4 h)
333, Cell and Molecular Biology	(4 h)	422, Forensic Biology	(4 h)
361, Principles of Biochemistry	(3 h)	423, Biophysics	(3 h)
412, Cell. and Mol. Immunology	(3 h)	424, Pharmacology	(3 h)
413, Prin. of Gen. Microbiology	(4 h)	461, Molecular Medicine	(3 h)
416, Plant Molecular Biology	(3 h)	474, Virology	(4 h)
417, Biochemistry	(3 h)	CHEM370, Instrument Analysis I	(3 h)
418, Adv. Tech. in Microscopy	(4 h)	CHEM435, Instrument Analysis II	(3 h)
419, Cell Biology	(3 h)	CHEM462, Molecular Bioinformatics	(3 h)

Ecology and Evolution (EE) Electives (3-4 h)

304, General Ecology	(3 h)	441, Conservation Biology	(3 h)
306, Evolutionary Biology	(3 h)	453, Systematics	(3 h)
330, Pop. Gen. for Forensic Sciences	(3 h)	471, Animal Behavior	(4 h)
375, Methods in Ecology and Evolution	(4 h)	473, Microbial Ecology	(4 h)
420, Darwin's Origin of Species	(3 h)	CHEM461, Environmental Chemistry	(3 h)
433, Ecological Co-Adaptations	(4 h)	GEOL455, Wetlands	(3 h)
434, Terrestrial Landscape Ecology	(4 h)	NRM371, Landscape Ecology	(3 h)
435, Aquatic Ecology	(4 h)	NRM442, Natural Resources Policy and Admin.	(3 h)
438, Ecological Restoration	(3 h)		

Organismal Biology (OB) Electives (3-4 h)

321, Plant Biology	(4 h)	455, Vascular Plants	(4 h)
373, Invertebrate Zoology	(4 h)	470, Biology of Arthropods	(4 h)
374, Vertebrate Zoology	(4 h)	472, Ornithology	(4 h)
411, Animal Physiology	(3 h)	475, Animal Development	(4 h)
415, Plant Physiology	(3 h)	476, Contemporary Fisheries	(4 h)
425, Flora of the Southern Appalachians	(4 h)	477, Herpetology	(4 h)
452, Plant Anatomy	(4 h)	478, Parasitology	(4 h)

General Biology (GB) Electives

389, Cooperative Education in Biology	(1 or 3 h)	MATH375, Statistical Methods II	(3 h)
467, Biostatistics	(3 h)	NRM344, Applied GIS	(4 h)
493, Seminar Series & Studies in Biology	(1-6 h)	PAR330, America's Wild. Ethics & Aesth.	(P4, 3 h)
GEOG 221, Geographic Info. Systems (GIS)	(3 h)	PAR332, Biomedical Ethics and Social Justice	(P4, 3 h)
GEOL305, Soils and Hydrology	(4 h)	PAR333, Environmental Ethics	(P4, 3 h)
MATH370, Probability and Statistics I	(3 h)		

Research Electives

389, Cooperative Education in Biology	(1 or 3 h)	495, Introduction to Senior Thesis	(1 h)
480, Research in Biology	(1 - 3 h)	498, Senior Thesis I	(2 h)
493, Studies in Biology	(1 - 6 h)	499, Senior Thesis II	(1 h)
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