BIOLOGY MAJOR - B.S.

Summary

Code	Title	Credits
Biology B.S. Major Requirements		60-65
Integrative Core Curriculum Requirements ¹		29-41
Electives		14-31
Total Credits		120

See Integrative Core Curriculum requirements, with information about the H&S CLA requirement. (https://catalog.ithaca.edu/undergrad/schools/school-humanities-sciences/#integrativecorecurriculumicctext)

Degree Requirements

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Code	Title	Credits
REQUIRED COU	RSES WITHIN THE DEPARTMENT	
BIOL 12100	Principles of Biology, Cell and Molecular	4
BIOL 12200	Principles of Biology, Ecology and Evolution	4
BIOL 22700	Genetics	4
BIOL 20700	Communicating Biology	3
BIOL 30200	Research in Biology	3
BIOL 41100	Biology Seminar	0.5
BIOL 41200	Biology: Seminar	0.5
Evolutionary/Ec	ological Perspective	
	e following courses:	3-4
BIOL 22300	Biology of Oceanic Islands	
BIOL 22800	The Evolution of Adaptations	
BIOL 27100	General Ecology	
BIOL 32400	Wonderful Life: Genes, Evolution, and Biodiversity	
BIOL 47800	Evolution	
Cellular/Molecul	lar Perspective	
Select one of the	e following courses:	4
BIOL 31500	Neurobiology	
BIOL 34500	Developmental Biology	
BIOL 35200	Microbiology	
BIOL 35400	Cell Biology	
BIOL 37300	Plant Physiology	
Biology Elective	s	
Four courses wi	th Biology Elective Attribute "BIEL" that ng criteria:	14-16
-At least two	electives must be 4-credit	
-At least one	elective must be at level 3 or above	
course is use	only count once in the major; if a BIEL d to fulfill any other major requirement, it e used as an Elective.	
	RSES OUTSIDE THE DEPARTMENT	
CHEM 12100 & CHEM 12200	Principles of Chemistry and Principles of Chemistry Laboratory	4
or CHEM 123	00Principles of Chemistry - Enriched Section	
CHEM 12400	Experimental Chemistry I	2
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(CHEM 22100	Organic Chemistry I	3
MATH 14500 Statistics for the Health, Life, and Sciences		Statistics for the Health, Life, and Social Sciences	4
Choose two of the following four options:			7-9
	CHEM 22200 & CHEM 22500	Organic Chemistry II and Experimental Chemistry II	
	CHEM 23200	Quantitative Chemistry	
	PHYS 10100	Introduction to Physics I	
	or PHYS 117	Principles of Physics I: Mechanics	
	PHYS 10200	Introduction to Physics II	
	or PHYS 118	Minciples of Physics II: Electricity and Magnetism	n
	Total Credits		60-65