

BIOLOGY MAJOR DEGREE REQUIREMENTS		B.S. BIOL CMB concn	B.A. BIOL	B.S. BIOL EEB concn
For students entering Harpur College starting Fall 2010		(912)	(313)	(915)
Introductory Biology (not P / F)	BIOL 117, 118	✓	✓	✓
Introductory Chemistry	CHEM 107, 108 (or CHEM 111)	✓	✓	✓
Statistics for Biologists	MATH 147 or MATH 148, or BIOL 437	✓	✓	✓
Organic Chemistry I, II, Lab	CHEM 231, 332, 335	✓	✓	✓
Ecology, Evolution, Behavior Core (not P / F)		1	1	2
Ecology	BIOL 355 (or BIOL 373), not both	Select one	Select one	✓
Mechanisms of Evolution / Macroevolution	BIOL 351 / 378			✓
Cell Molecular Biology Core (not P / F)		2	1	1
Cell Biology	BIOL 311	✓	Select one	Select one
Molecular Genetics	BIOL 301 or BIOL 401	✓		
Math and Science electives Courses as listed to the right Others by approval of Faculty advisor	Select from: PHYS 121 or 131; 122 or 132; MATH 221, 222, 304; 314 BE 340; CS 110; CS 140 Only one from GEOL 100-level; ENVI 201 CHEM 221, 341, 351	12 credits	8 credits	12 credits
Math/Science elective OR an Upper-level Biology elective	See list above for Math/Science elective See below for Upper-level Biology elective	4 credits	None	4 credits
Upper-level Biology electives 300 level and above beyond required upper level BIOL core	Select from BIOL 330-BIOL 489; 494-498 can be a CMB- or EEB- core course beyond requirement; cannot be BIOL 490-493	20 credits	16 credits	20 credits
CMB credits among upper level Biology electives	BIOL 300-349, BIOL 400-449 BIOL 480-489 A-P	16 credits		4 credits
EEB credits among upper level Biology electives	BIOL 330-379, BIOL 430-479 BIOL 480-489 I-X	4 credits		16 credits
Can be Independent Study of Internship	BIOL 494, 495, 496, 497, 498	Only up to 8 credits	Only up to 4 credits	Only up to 8 credits
Total number of labs among upper-level Biology electives	Select from BIOL 320-329, 340-349, 370-379, 420- 429, 440-449, 470-479, 480-489 E-H, M-P, U-X	3 labs	2 labs	3 labs
CMB-type labs	BIOL 320-329, 340-349, 420-429, 440-449 480-489 E-H, M-P	at least 2		
EEB-type labs	BIOL 340-349, 370-379, 440-449, 470-479, 480-489 M-P, U-X			at least 2
Can be Independent Study or Internship – with lab or field	BIOL 495, 497, 498	Only up to 2 labs	Only up to 1 lab	Only up to 2 labs
Residency requirement: Must take at Binghamton	Upper level BIOL courses including required core	32 credits	24 credits	32 credits