

Major Program Guide For: BS/MS in Biology
Concentration: ABM-Cell & Molecular Biology
 Suggested Course Sequence

Freshman Year

Fall				Spring			
Course Prefix or LS Requirement	Course Number	Course Title	Hours	Course Prefix or LS Requirement	Course Number	Course Title	Hours
BIOL	139	General Biology I	4	BIOL	140	General Biology II	4
CHEM	139	General Chemistry I	4	CHEM	140	Advanced General Chemistry	4
ENGL	101	Composition I	3	BIOL	180	Intro to Biol Research	1
HEAL or HSCC		Wellness	3	COMM	201	Intro to Speech Comm	3
First Year Seminar	190		3	P1		Social Sciences	3
			17				15

Sophomore Year

Fall				Spring			
Course Prefix or LS Requirement	Course Number	Course Title	Hours	Course Prefix or LS Requirement	Course Number	Course Title	Hours
BIOL	240	Genetics	4	BIOL	241	Ecology & Evolution	4
CHEM	241	Organic Chemistry I	4	CHEM	242	Organic Chemistry II	4
MATH	146	Precalculus II	4	P3		History	3
ENGL	202	Composition II	3	MATH	270 or 153	Statistical Methods or Calc	3-4
			15	P4		Humanities	3
							17-18

Junior Year

Fall				Spring			
Course Prefix or LS Requirement	Course Number	Course Title	Hours	Course Prefix or LS Requirement	Course Number	Course Title	Hours
BIOL	361	Biochemistry	3	BIOL	333	Cell & Molecular Biology	4
BIOL	493	Std Biol (indep research)	1-3	BIOL	493	Std Biol (indep research)	1-3
PHYS	130 or 230	Physics I	4	PHYS	131 or 231	Physics II	4
P5		Fine & Performing Arts	3	P1		Social Science (ULP)	3
BIOL	4xx/5xx	CURE Elec or Grad equiv	3-4	P6		World Cultures	3
			14-16				15-17

Senior Year

Fall				Spring			
Course Prefix or LS Requirement	Course Number	Course Title	Hours	Course Prefix or LS Requirement	Course Number	Course Title	Hours
BIOL	480	Research in Biology	3	BIOL	480	Research in Biology	3
BIOL	697	Intro to Grad Studies	2	BIOL	519	Cell Biology	3
BIOL	4xx/5xx	Jr-Sr-Grad Elective	3-4	BIOL	4xx/5xx	Jr-Sr-Grad Elective	3-4
BIOL	4xx/5xx	Jr-Sr-Grad Elective	3-4	BIOL	4xx/5xx	Jr-Sr-Grad Elective	3-4
BIOL	696	Seminar in Biology	1				
			12-14				12-14
MS Year							
Summer							
BIOL	699	Thesis	1-3				
Fall				Spring			
Course Prefix or LS Requirement	Course Number	Course Title	Hours	Course Prefix or LS Requirement	Course Number	Course Title	Hours
BIOL	699	Thesis	3¹	BIOL	696	Seminar in Biology	1
BIOL	696	Seminar in Biology	1	BIOL	699-799	Thesis/Cont. Research	3-5
BIOL	500-600	Elective	3-4	BIOL	500-600	Elective	3-4
BIOL	500-600	Elective	3-4				
Total			9	Total			9

Notes:

¹30 graduate credits are required for the MS, including 6 BIOL 699 (Thesis) credits

Blue highlight = undergraduate research credits

Green highlight = possible graduate credits taken as an undergrad up to a maximum of 12 hours; these count toward both degrees

Bold are required courses