

Major Program Guide For: B.S. in Biology¹ Concentration: Pre-Health Professional 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	140	Principles of Biology I	4	BIOL	141	Principles of Biology II	4
CHEM	139	General Chemistry I	4	CHEM	140	Advanced General Chemistry	4
ENGL	101	Composition I	3	COMM	201	Intro to Speech Communication	3
HEAL or HSCC ² (Wellness)		choose from list of options	3	P5 (Fine & Performing Arts)		choose from list of options	3
First Year Seminar	190		3	P6 (World Cultures)		choose from list of options	3
BIOL	180	Intro to Biol Research	1				
			18				17

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 ³	Precalculus	4	MATH	153	Calculus I	4
P3 (History)		choose from list of options	3	P1 (Social Science)		PSY 150 (recommended)	3
ENGL	202	Composition II	3				
			18				15

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	411	Animal Physiology	3	BIOL	333	Cell and Molecular Biology	4
BIOL	361	Principles of Biochemistry	3	BIOL		Jr-Sr Biology Elective	4
PHYS	130	Physics I	4	PHYS	131	Physics II	4
P1 (Social Science)		SOCW 354 recommended	3	P4 (Humanities)		PAR 332 (recommended)	3
			13				15

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	496 ⁵	Biology Departmental Seminar	1	BIOL		Jr-Sr Biology Elective	3-4
BIOL		Jr-Sr Biology Elective	4	BIOL		Jr-Sr Biology Elective	3-4
BIOL		Jr-Sr Biology Elective	3-4	General Elective			3-4
General Elective ⁶			3-4	General Elective			3-4
General Elective			3-4				
			14-17				12-16

Notes:

- Total number of credit hours for the program: 120.
- There is great flexibility in scheduling Liberal Studies (LS) courses, but most other freshman/sophomore courses must be taken in numerical sequence to satisfy prerequisites. For example, BIOL 140 is a prerequisite for BIOL 141, which is a prerequisite for BIOL 240; MATH 146 is a prerequisite for MATH 153; and CHEM 140 is a prerequisite for CHEM 241, which is a prerequisite for CHEM 242.
- MATH 146 (Pre-calculus) is not required by the Biology BS degree, but is a prerequisite for MATH 153 (Calculus I). This four-credit course is the only prerequisite course in the Biology BS program that is not also required for the major.
- All students are required to take one upper-level perspectives (ULP), LS course. Any junior/senior level LS course will satisfy this requirement, but we recommend PAR 332 or PAR 333 because either will satisfy three requirements: Humanities, ULP, and 3 hours of upper level biology elective credit.
- "Biology Departmental Seminar" can be taken starting sophomore year.
- All biology majors are strongly advised to take at least one semester of statistics. We recommend Biostatistics (BIOL 467), Statistical Methods I (MATH 270), or Statistical Methods II (MATH 375).