

Major in Biology (B.S.): Excellent Preparation for Med School

Courses highlighted in green: Material you will encounter in Medical School				
Course #	Course Name	Course Credit	Prerequisites for medical school admission	Prep courses for MCAT (E=essential, H=helpful)
BIO124/124D	Integrative Biology: Genes, Cells, Change	4	X	E
BIO128/128D	Integrative Biology: Metabolism, Energy, Biodiversity	4	X	E
BIO399	Introduction to Research	1		
BIO495	Biology Seminar	2		
BIO481	Internship in Biology	3		
BIO496 & BIO497	Research & Advanced Research in Biology	2		
BIO499	Biology Symposium	0		
Choose 7 courses from the following 3 categories (Organismic, Cell & Molecular, Environmental), minimum of 1 from each				
Organismic category:				
BIO214/215	Human Anatomy	4		H
BIO216/217	Human Physiology	4		
or BIO238/239	or Human Anatomy and Physiology	4		
BIO326/327	Vertebrate Histology	4		H
BIO358/359	Neurobiology	4		H
BIO368/369	Structure and Development of Vertebrates	4		
BIO376/377	Animal Physiology	4		
BIO409	Advanced Human Gross Anatomy	4		
BIO338/339	Endocrinology	4		H
BIO244	Pathophysiology and Pharmacology	3		
Cell and Molecular category:				
BIO234/235	Microbiology	4		H
BIO332/333	Genetics	4	X	H
BIO354/355	Cell Biology	4		H
BIO362/363	Developmental Biology	4		H
BIO384/387	Immunology	4		H
BIO396/397	Molecular Biology	4		H
BIO388/389	Biochemistry I	4	X	H
or CHE304/305	or Essentials of Biochemistry	4		
Environmental Category:				
BIO316/317	Wildlife Ecology and Management	4		
BIO318KZ	Ecology in the Tropics: Natural History and Future Prospects	4		
BIO324/325	Human Ecology	4		
BIO328/329	Invertebrate Biology	4		
BIO330/331	Ecology	4		
BIO342/343	Aquatic Biology	4		
BIO346/347	Animal Behavior	4		
BIO372/373	Plant Taxonomy and Ecology	4		
BIO380/383	Environmental Plant Biology	4		
Required Chemistry Courses:				
CHE113/133D & CHE214/215 or CHE 208/208D	General Chemistry I and General Chemistry II or Accelerated General Chemistry	4-8	X	E
CHE224/225 & CHE226/227	Organic Chemistry I and and Organic Chemistry II	8	X	E
Required Physics Courses:				
PHY202/202D & PHY206/207 or PHY292/292D & PHY296/297	Introductory Physics I and Introductory Physics II or General Physics I and General Physics II	8	X	E
One required Mathematics course from the following list:				
MAT123M or MAT124M or MAT125 or MAT207M or PSY230	Precalculus or Calculus 1 or Calculus 2 or Statistical Analysis 1 or Introduction to Statistical Methods and Experimental	3-4		H