



Biology – Pre-Medical/Pre-Dental Pathway

Degree Awarded: Bachelor of Science

Requirements for the Major: 69-75 credits, plus 3 prerequisite credits

The B.S. in Biology is designed for students seeking entry into a post-baccalaureate program focused on medicine or dentistry. Admission to medical/dental programs requires a broad foundation in the biological sciences and specialization in upper-level courses. Students complete courses that satisfy the requirements for the B.S. in Biology, satisfy the minimum requirements for entry to medical/dental schools and provide background to prepare for the Medical College Admission Test (MCAT) and Dental Admission Test (DAT).

Students are prepared for pre-medical or pre-dental advanced degree program applications with course-based informational sessions and one-on-one mentoring. The goal is to help the student prepare application materials, reflect upon their own individual vocation pathway in medicine, and practice interview skills. In addition, students will master advanced concepts and abilities to improve performance upon entry into such programs. To tailor a program of study that meets an individual student's choice in post-baccalaureate program, the student is expected to work closely with a faculty advisor.

Graduates with a B.S. in Biology can also seek employment in various biology-related fields, such as technical, clinical and laboratory-based environments as a research technician or technologist, including within the field of medicine.

Transfer credit for Biology courses must be taken within the last 10 years.

Prerequisite courses for the major:

Essential Competencies-Outcome Iterations

****Transfer courses do not receive outcome iterations****

				CI	IL	W	O	Q	GA	V
	MATH 121	College Algebra	3	x				x		

Requirements for the Major:

Essential Competencies-Outcome Iterations

****Transfer courses do not receive outcome iterations****

				CI	IL	W	O	Q	GA	V
	BIOL 101	General Biology I	4	x		x				
	BIOL 102	General Biology II	4	x	x	x				
	BIOL 150	Careers in Biology	1							x
	BIOL 250	Journal Club	1							
	BIOL 251	Pre-Medical/Dental Seminar	1							
	BIOL 252	Pre-Medical/Dental Seminar	1							
	BIOL 256	Microbiology	4	x						
	BIOL 335	Physiology	4							
	BIOL 360	Genetics	4					x	x	
	BIOL 380	Cell Biology	4					x		
	BIOL 420	Gross Anatomy	4							
	BIOL 450	Senior Seminar	2		x	x	x			x
	CHEM 111	General Chemistry I	4	x				x		
	CHEM 112	General Chemistry II	4							
	CHEM 321	Organic Chemistry I	5							
	CHEM 351	Biochemistry	3							
	STAT 241 or STAT 261	Principles of Statistics or Applied Statistics	4 or 3	x				x x	x	
	PHYS 131 or PHYS 241	Introduction to Physics I or General Physics I	4 or 5	x					x	
	PHYS 132 or PHYS 242	Introduction to Physics II or General Physics II	4 or 5							

This information must be used in conjunction with the 2019-2020 Grand View University Catalog and does not reflect a student's official record of progress. Students are expected to use the Progress tool found on myView > GV Self Service when monitoring and planning coursework. Other available resources include: Course Planning Documents (found on myView under Academics) and the faculty and staff who work with academic requirements.

Take three courses from the following:

Essential Competencies-Outcome Iterations

****Transfer courses do not receive outcome iterations****

				CI	IL	W	O	Q	GA	V
	BIOL 330	Reproductive and Developmental Biology	3							
	BIOL 410	Histology	4							
	BIOL 415	Molecular Biology	4							
	BIOL 444	Immunology	3							
	BIOL 499	Research in Biology	1-3							

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