

# Biology: Pre-Medical

## Degree Type

Bachelor of Science

## Objective

A course of study that is suitable for students preparing for application to Medical, Dental, Optometry, Physical Assistant, Veterinary, and Graduate School in biology

In planning a college program, students should follow the requirements and recommendations of particular professional schools to which applications for admission are planned. Admission requirements vary from school to school. All demand a high grade point average and other evidence of superior scholarship.

**Administrator:** Chair, Department of Biology

**Requirements:** 64 credits, including 37 in biology

**Core requirements:** 55 credits, 28 in Biology

Item #	Title	Credits
BIOL2220	General Biology I	3
BIOL2220L	General Biology I Laboratory	1
BIOL2230	General Biology II	3
BIOL2230L	General Biology II Laboratory	1
BIOL2240	Plant and Animal Ecology	3
BIOL2970	Introduction to Research	1
BIOL3720	Genetics	3
BIOL3720L	Genetics Laboratory	1
BIOL3740	Origins	3
	BIOL3960 or BIOL3970	1-4
BIOL4410	Biochemistry I	3
BIOL4410L	Biochemistry I Laboratory	1
BIOL4420	Biochemistry II	3
BIOL4980	Senior Seminar/Capstone	1
CHEM2210	General Chemistry I	3
CHEM2210L	General Chemistry I Laboratory	1
CHEM2220	General Chemistry II	3
CHEM2220L	General Chemistry II Laboratory	1
CHEM3210	Organic Chemistry I	3
CHEM3210L	Organic Chemistry I Laboratory	1
CHEM3220	Organic Chemistry II	3
CHEM3220L	Organic Chemistry II Laboratory	1
MATH2240	Elementary Statistics	3

**BIOL4980** must be taken at Northwest Nazarene University

**Complete one of the following physics sequences:**

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
PHYS1110	College Physics I	3
PHYS1110L	College Physics I Laboratory	1
PHYS1120	College Physics II	3
PHYS1120L	College Physics II Laboratory	1

**-Or-**

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
PHYS2110	Physics for Science and Engineering I	3
PHYS2110L	Physics for Science and Engineering I Laboratory	1
PHYS2120	Physics for Science and Engineering II	3
PHYS2120L	Physics for Science and Engineering II Laboratory	1

**Select electives from the categories below to equal a minimum of 9 credits.**

**Anatomy and Physiology:**

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
BIOL2010	Human Anatomy and Physiology I	3
BIOL2010L	Human Anatomy and Physiology I Laboratory	1
BIOL2030	Human Anatomy and Physiology II	3
BIOL2030L	Human Anatomy and Physiology II Laboratory	1
BIOL3360	Vertebrate Comparative Anatomy	3
BIOL3360L	Vertebrate Comparative Anatomy Laboratory	1
BIOL3510	Studies in Histology	1
BIOL3620	Vertebrate Physiology	3
BIOL3620L	Vertebrate Physiology Laboratory	1
BIOL3820	Pathophysiology	3
BIOL3920	Cadaver Dissection I	1
BIOL3930	Cadaver Dissection II	1

**Molecular:**

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
BIOL3420	General Microbiology	3
BIOL3420L	General Microbiology Laboratory	1
BIOL3460	Cell Biology	3
BIOL3460L	Cell Biology Laboratory	1
BIOL3540	Immunology	3
BIOL3560	Endocrinology	3

**Additional recommended courses include further biology and chemistry, and/or any of the following:**

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
BIOL3500	Bioethics	2
BIOL3850	Animal Behavior	3
BIOL3850L	Animal Behavior Laboratory	1
MATH2510	Calculus I	4
PHIL3520	Philosophy of Science	3
PSYC3455	Abnormal Psychology	3
<b>Total Credits</b>		<b>64-67</b>