BIOLOGY MAJOR
PRE-HEALTH PROGRAM

DOMAIN GENERAL EDUCATION (10 courses Required):

Domain II B is satisfied through completion of the Biology major, leaving ten courses to be completed to satisfy the remaining general education subdomains through courses taken outside the major department. Only courses designated (Gen. Ed. Domain) after the course title will meet general education requirements.

Common Core:	A. ENWR 110 Composition 2	
	B. MATH XXX	
Domain I:	A. Creative Arts	
	B. Humanities	
	C. Language	
Domain II:	A. Analysis, Modeling, Problem-Solving	
	B. Sciences (two; one must be a lab science)	X
Domain III:	A. Perspectives on the Past	
	B. Perspectives on Contemp. World	
	C. Global Comp., Eth. Reas., Human Div.	

BIOLOGY MAJOR AND RELATED COURSES:

Required Major Related Core Courses (12):

BIOL 125	The Biology Experience	
BIOL 135/135L	Foundations of Biological Science with Lab	
BIOL 208/208L	Genetics with Lab	
BIOL 230	Professional Communication in Biology	
BIOL 262/262L	Molecular Biology with Lab	
BIOL 402	Processes of Organic Evolution	
CHEM 107/107L	Principles of Chemistry with Lab	
CHEM 108/108L	Principles of Chemistry and Quantitative Analysis with Lab	
CHEM 207/207L	Organic Chemistry I with Lab	
MATH 180	Precalculus (CCM)*	
MATH 208	Biostatistics **OR**	
ENVS 202	Data Analysis for Scientists	

**Student proficient at the precalculus level should enroll in MATH219 Calculus 1 to satisfy the Gen. Ed. Domain Common Core Math Requirement.*

Biology Major Capstone:

BIOL460 Research Experience in Biology** _____

***An original research project is required of all Biology Majors. Prior to enrollment in BIOL469 Research Experience in Biology, the student should meet with their academic advisor and with other Biology faculty to tailor the research project to the student's interests and career goals.*

Additional Biology electives, Pre-Health Concentration:

This concentration is designed for Biology majors who plan to attend medical school, dental school, veterinary school, or pursue a career in either human or animal health. Though specific programs may have additional or slightly varying requirements, these basic courses are required by the majority of professional schools. Students are strongly advised to meet the pre-professional advisor early in their coursework.

Students must take seven (7) courses, depending upon their interest:.

One (1) Physiology Elective:

BIOL 235/235L	Principles of Human Physiology with Lab	
BIOL 241/241L	Human Anatomy and Physiology I with Lab	

Three (3) Additional Biology or Physiology Electives:

BIOL 228/228L	Microbiology with Lab	
BIOL 233/233L	Comparative Vertebrate Anatomy with Lab	
BIOL 242/242L	Human Anatomy and Physiology II with Lab **OR**	
BIOL 344/344L	Animal Physiological Ecology with Lab	
BIOL 260/260L	Cell Biology with Lab	
BIOL 356	Biology of Cancer	
BIOL 381	Theories of Infectious Disease	
BIOL 426	Human Immunology	
BIOL 432	Vertebrate Development	
HLTH 302	Exercise Physiology	

One (1) Biochemistry Elective:

CHEM 300/300L	Principles of Biochemistry with Lab	
CHEM 301/301L	Biochemistry I with Lab	

Choose Two (2) additional electives from:

CHEM 208/208L	Organic Chemistry II with Lab	
CHEM 332/332L	Biochemistry II with Lab	
HLTH 222	Public Health and Epidemiology	
HLTH 326	Drugs, Alcohol, and Addictive Behavior	
MATH 219	Calculus I	
MATH 220	Calculus II	
NEUR 225	Biopsychology	
NEUR 380	Neuropharmacology	
NEUR 450	Seminar in Neuroscience	
NUTR 110	Fundamentals of Nutrition Science	
PHIL 222	Bioethics	
PHYS 211/211L	Principles of Physics I with Lab	
PHYS 212/212L	Principles of Physics II with Lab	

Note: A student who selects CHEM 208/208L Organic Chemistry II with Lab, CHEM 301/301L Biochemistry I with Lab and CHEM 332/332L Biochemistry II with Lab may complete a Biochemistry minor in addition to the concentration

Recommended:

HEAL 100 Orientation to Health-Related Professions (Non-credit) *

FREE ELECTIVES (3) for Pre-Health Concentration):

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

***For students who plan to pursue an advanced degree in Biology, the following courses are strongly recommended:**

CHEM 300/300L	Principles of Biochemistry with Lab	
MATH219	Calculus I	
PHYS 201/201L	Physics for Earth and Life Scientists with Lab ***or both***	
PHYS211/211L	Physics I with Lab **AND**	
PHYS 212/212L	Physics II with lab	

2022-2023