

Biomedical Sciences - Pre-Professional Option, B.S.

Course	Title	Semester Credit Hours
Freshman Year		
Semester 1		
BIOL 1306 & BIOL 1106	Biology for Science Majors I and Biology for Science Maj Lab I	4
CHEM 1311 & CHEM 1111	General Chemistry I and General Chemistry I Lab	4
Rhetoric & Composition		3
MATH 2413	Calculus I	4
UNIV 1201	Learning in Global Context	2
Semester Credit Hours		17
Semester 2		
BIOL 1307 & BIOL 1107	Biology for Science Majors II and Biology for Science Maj Lab II	4
CHEM 1312 & CHEM 1112	General Chemistry II and General Chemistry II Lab	4
Rhetoric & Composition		3
Creative Arts		3
Semester Credit Hours		14
Sophomore Year		
Semester 1		
BIOL 2421	Elementary Microbiology	4
American History		3
PHYS 1301 & PHYS 1101	College Physics I and Coll Physics I Laboratory	4
Government/Political Science		3
Communication		3
Semester Credit Hours		17
Semester 2		
American History		3
PHYS 1302 & PHYS 1102	College Physics II and College Physics II Lab	4
Government/Political Science		3
Lang/Phil/Culture		3
Social/Behavioral		3
Semester Credit Hours		16
Junior Year		
Semester 1		
BIOL 3402	Genetics	4
BIOL 3408	Animal Physiology	4
CHEM 3323 & CHEM 3123	Organic Chemistry I and Organic Chemistry Lab I	4
Elective		4
Semester Credit Hours		16
Semester 2		
BIOL 4401	Molecular Biology	4
CHEM 3325 & CHEM 3125	Organic Chemistry II and Organic Chemistry Lab II	4

STAT 4301	Biostatistics	3
Elective		4
Semester Credit Hours		15
Senior Year		
Semester 1		
BIOL 4426	Cellular Physiology	4
BIOL 4102	Seminar (WI)	1
BIOL, adv. (p.)		3
Elective		4
Semester Credit Hours		12
Semester 2		
BIOL 4335	Molecular Genetics	3
BIOL, adv. (p.)		3
Electives		4
Elective		3
Semester Credit Hours		13
Total Credit Hours Required:		120

Students pursuing the pre-professional option may choose from approved minor electives in any suitable field.

Students pursuing the pre-professional option (medicine, veterinary medicine, dentistry, pharmacy, physician's assistant, optometry, physical therapy and occupational therapy) may choose from any of the approved biology electives that are biomedically relevant courses, below:

Approved Biomedical Sciences Electives

Code	Title	Semester Credit Hours
BIOL 2401	Anatomy and Physiology I	4
BIOL 2402	Anatomy and Physiology II	4
BIOL 3301	Evolutionary Theory	3
BIOL 3407	Ecology	4
BIOL 4304	Research Projects in Biol	1-3
BIOL 4332	Pathophysiology	3
BIOL 4334	Molecular Neurobiology	3
BIOL 4355	Topics in Biology (Approved topics are: Cancer Biology, Epigenetics, Immunology, Genetics of Human Disease, Systems Neurobiology, Ecology and Human Disease, or Understanding Human Physiology)	3
BIOL 4406	Bacteriology	4
BIOL 4408	Immunology	4
BIOL 4410	Topics in Biology (Special Topics: Ecology of Human Disease, Functional Neuroanatomy or Human Ecology and Health)	4
BIOL 4433	Histology	4
BIOL 4434	Biology of Forensic Science I	4
BIOL 4435	Biology of Forensic Science II	4
Total Semester Credit Hours		49-51

Organismal biology classes including BIOL 3403 Plant Taxonomy, BIOL 4425 Ornithology, BIOL 4427 Herpetology, BIOL 4429 Mammalogy, BIOL 4431 Ichthyology, BIOL 4355 Topics in Biology: Tropical Ecology, Tropical Bid. Field Tech., BIOL 4410 Topics in Biology: Marine Ecology, Marine Biology are not suitable courses for biomedical electives. New courses will be reviewed and approved by the departmental Biomedical Curriculum Committee.