

BIOLOGY (B.S.) PRE-VETERINARY MEDICINE TRACK

Major Requirements

Code	Title	Hours
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
BIO 200 & BIOL 200	Introduction to Cell Biology and INTRO TO CELL BIOLOGY LAB	4
BIO 209 & BIOL 209	Principles of Genetics and Principles of Genetics Lab	4
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
BIO 390	SEMINAR IN BIOLOGY	1
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
MATH 111	COLLEGE ALGEBRA	3
or MATH 103	College Algebra with Corequisite Support	
MATH 112	PLANE TRIGONOMETRY	3
MATH 241	CALCULUS I WITH LABORATORY	3
Statistics Elective		3
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
Total Hours		57

Concentration

Code	Title	Hours
BIO 114	Introduction to Marine & Environmental Sciences	3
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
BIO 235 & BIOL 235	HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY LAB	4
Biology Electives		5
Biology Electives (300-400 Level)		8
BIO 335	INTRODUCTION TO ANIMAL SCIENCE	3
BIO 395 & BIOL 395	Principles of Biochemistry and Principles of Biochemistry Lab	4
or CHEM 431	BIOCHEMISTRY I	
BIO 435	ANIMAL NUTRITION	3
Total Hours		34

The following may be taken as Biology electives:

Code	Title	Hours
BIO 115 & BIOL 115	GENERAL ZOOLOGY and GENERAL ZOOLOGY LAB	4
BIO 119 & BIOL 119	GENERAL BOTANY and GENERAL BOTANY LAB	4
BIO 201	INTRO TO ENVIRONMENTAL SCIENCE	3
BIO 236	CONCPTS OF PUBLIC HEALTH	3
BIO 302	BIOINFORMATICS AND COMPUTATIONAL BIOLOGY	3
BIO 332	PARASITOLOGY	3
BIO 391	INTRODUCTION TO RESEARCH	2
BIO 393	INTRO TO MEDICAL TERMINOLOGY	3
BIO 404	ENVIRONMENTAL SCIENCE	3
BIO 406 & BIOL 406	HUMAN ENVIRONMENT & NATURL SYS and HUMAN ENVIRNMNT & NAT SYSM LAB	4
BIO 409	Genetics	3
BIO 412	NATURAL RES & CONS	3
BIO 413	HUMAN NUTRITION	3
BIO 423 & BIOL 423	ECOLOGY and ECOLOGY LABORATORY	4
BIO 431	INVERTEBRATE ZOOLOGY	3
BIO 433	BIOLOGY OF WATER POLUTION	3
BIO 440 & BIOL 440	CELL BIOLOGY and CELL BIOLOGY LAB	4
BIO 441 & BIOL 441	HISTOLOGY and HISTOLOGY LAB	4
BIO 447 & BIOL 447	Introduction to Oceanography and Introduction to Oceanography Lab	4
BIO 450	MARINE INVERTEBRATE ZOOLOGY	3
BIO 451	INTRODUCTION TO IMMUNOLOGY	3
BIO 461	INTRODUCTION TO VIROLOGY	3
BIO 470 & BIOL 470	HUMAN PHYSIOLOGY and HUMAN PHYSIOLOGY LAB	4
BIO 496	Cancer Biology	3

Note: Laboratory courses must be taken during the same semester as lecture for biology, chemistry and physics courses unless approved by the department chair.

Other Requirements/Offerings

Earning at least a "C" or better in all required BIO/BIOL courses

Course	Title	Hours
Freshman		
Fall		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
MATH 111	COLLEGE ALGEBRA	3
or MATH 103	or College Algebra with Corequisite Support	
ENG 104	COMPOSITION I	3
or ENG 111	or COMPOSITION & LITERATURE FOR L	
or ENG 103	or English Composition I with Co-requisite Support	
UNIV 100	UNIVERSITY SUCCESS	2
Total Hours	Hours	16

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Spring		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
MATH 112	PLANE TRIGONOMETRY	3
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
Pathway Option		3
Hours		17
Sophomore		
Fall		
BIO 200 & BIOL 200	Introduction to Cell Biology and INTRO TO CELL BIOLOGY LAB	4
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 241	CALCULUS I WITH LABORATORY	3
Social & Behavioral Science Option		3
Pathway Option		3
Hours		17
Spring		
BIO 209 & BIOL 209	Principles of Genetics and Principles of Genetics Lab	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
UNIV 200	CIVIC ENGAGEMENT	1
Statistics Elective		3
Pathway Option		3
Hours		15
Junior		
Fall		
BIO 234 & BIOL 234	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY LAB	4
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
BIO 313 & BIOL 313	INTRODUCTION TO MICROBIOLOGY and INTRODUCTION TO MICROBIOLOGY L	4
BIO 395 & BIOL 395 or CHEM 431	Principles of Biochemistry or BIOCHEMISTRY I	4
Hours		16
Spring		
BIO 235 & BIOL 235	HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY LAB	4
PHY 202 & PHYL 202	BASIC PHYSICS II and BASIC PHYSICS LAB II	4
BIO 335	INTRODUCTION TO ANIMAL SCIENCE	3
Humanities & Fine Arts Option		3
Humanities & Fine Arts Option		3
Hours		17
Senior		
Fall		
BIO 390	SEMINAR IN BIOLOGY	1
BIO 114	Introduction to Marine & Environmental Sciences	3
Social & Behavioral Science Option		3
Biology Electives		5
Hours		12
Spring		
BIO 435	ANIMAL NUTRITION	3
Humanities & Fine Arts Option		3
Biology Electives (300-400 Level)		8
Hours		14
Total Hours		124

Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

Contact Department about specific Learning Outcomes