

Biomedical Science

55 credit min

Effective for Fall 2020

Biology Core Courses (14-15 Credits)

BIO 105	Biological Concepts(NS)(XL)	B	(4) _____
OR			
BIO 108	Honors: Concepts in Bio(NS)(XL)	F	(5) _____
BIO 323	Intro Molecular & Cell Bio (Bio 105, Chem 105 and/or C/Chem 106, or Chem 101,102 w/B)	B	(3) _____
BIO 343	Genetics (NS)(Bio 323)	B	(4) _____
BIO 349	Ecology and Evolution (1 term gen Bio)	B	(3) _____
BIO 491	Senior Survey***	B	(0) _____

Required Chemistry Courses (21 Credits)

CHEM 105	General Chemistry I (NS)(XL)	B	(5) _____
CHEM 106	General Chemistry II (NS)(XL)	B	(5) _____
CHEM 234	Organic Chemistry Lab I (Co-req Chem 235)	B	(1) _____
CHEM 235	Organic Chemistry I (NS)(Chem 106 w/C)(Co-req Chem 234)	B	(3) _____
CHEM 303	Biochemistry: Clinical Emphasis (Chem 335)	B	(3) _____
CHEM 334	Organic Chemistry Lab II (Chem 234, 235 w/C)(Co-req Chem 335)	B	(1) _____
CHEM 335	Organic Chemistry II (NS)(Chem 235 w/C)(Co-req Chem 334)	B	(3) _____
MATH	Meet COLS BS requirements (200+ level Statistics recommended)	()	_____

Elective Courses (20 Credits)

Required Elective Credits (choose one from each box)

BIO 211	Human Anatomy (NS)(XL)(Bio 105 w/C)	B	(4) _____
OR			
BIO 308	Comparative Anatomy (NS)(Bio 105 and 1 year gen Chem)	B	(5) _____

AND

BIO 233	Microbial Survey (NS)(XL)(Bio 105 w/C)	B	(4) _____
OR			
BIO 309	Microbiology (NS)(Bio 105 and 1 year gen Chem)	B	(5) _____

AND

BIO 319	General Animal Physiology (NS)(1 year Chem, Bio 323)	B	(5) _____
OR			
BIO 450	Microbial Physiology (NS)(Bio 309)	F	(5) _____

Remaining Elective Credits: *continued on next page.*

Remaining Elective Credits (*if not already chosen from above; ** must be health-related)

BIO 300	Internship in Biology**	B	(1-6) _____
BIO 301	Internship in Microbiology**	B	(1-6) _____
BIO 303	Introduction to Epidemiology (Bio 105)	F	(2) _____
BIO 306	Neurobiology (Bio 105)	S	(3) _____
BIO 308	Comparative Anatomy* (NS)(1 term general Bio)	S	(5) _____
BIO 310	Biology of Gender (Bio 105 and either Bio 211 or 230 or 308)	S	(3) _____
BIO 312	Medical Bacteriology Lecture (Bio 309 and 341)	S	(2) _____
BIO 313	Medical Bacteriology Lab (NS)(Bio 309 and 341, C/Bio 341)	S	(2) _____
BIO 315	Virology (Bio 323)	S	(3) _____
BIO 316	Developmental Biology (Bio 323)	S	(3) _____
BIO 319	General Animal Physiology* (NS)(1 year Chem, Bio 323)	B	(5) _____
BIO 321	Mycology (NS)(1 term gen Bio)	F	(3) _____
BIO 332	Entomology (NS)(1 term gen Bio)	F	(3) _____
BIO 338	Environmental Toxicology (Bio 105)	S	(2) _____
BIO 339	Public Health & Food Microbiology (Bio 233 or 309)	S	(3) _____
BIO 341	Immunology (Bio 323)	F	(3) _____
BIO 344	Introduction to Hematology (Bio 341)	S	(3) _____
BIO 354	Parasitology (NS)(1 term gen Bio and Bio 230)	S	(3) _____
BIO 372	Med and Environmental Apps of Cell Bio & Genetics (Bio 323)	S	(3) _____
BIO 374	Cell/Immunology Lab (NS)(Bio 341 or 372)	F	(3) _____
BIO 450	Microbial Physiology* (NS)(Bio 309)	F	(5) _____
BIO 446	Independent Study**	B	(1-3) _____
BIO 456	Related Readings**	B	(1-3) _____

Pre-requisites are in parentheses

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S = Spring

F = Fall

B = Both Fall & Spring

***During their last semester senior students will take the senior survey course assessment exam and fill out a survey regarding their experience in the program. This will be taken in the Testing Center at the student's convenience (during normal Testing Center hours). Completion is a graduation requirement.

Must meet General Education and Degree Requirements to earn BS Degree

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