



# Plan of Study

## Biology for Pre-Medicine

Catalog Year: 2020-2021

**Sample Schedule:** students are not limited to this plan; it is meant to serve as a guide for planning purposes in discussions with your academic advisor. This plan is one possible path to completing this degree in **four years**.

### FIRST YEAR

#### First Semester

Course	Prerequisites / Comments	Credits	Semester Offered
BIOL 145-Intro to Sci. Inquiry		1	F
BIOL 151 General Biology I and Lab		4	F
CHEM 112 General Chemistry I * and Lab	Math 114, 115, 129, 121, 123, 125 or 281	4	F
MATH 123 Calculus I (recommended)**	Placement reports determine	4	F,S
CSC 105 Intro to Computers		3	F,S,SU
	<b>Total Credit Hours</b>	<b>15-16</b>	

#### Second Semester

Course	Prerequisites / Comments	Credits	Semester Offered
BIOL 153 General Biology II * and Lab		4	S
ENGL 101 Composition I*		3	F,S
CHEM 114 General Chemistry II* and Lab	CHEM 112; Math 114, 115, 129, 121, 123, 125, or 281	4	S
Social Science (Psychology) **		3	F,S
CIS 123 Prob. Solving or CSC 150 Comp. Science I		3	F,S,SU
	<b>Total Credit Hours</b>	<b>17</b>	

### SECOND YEAR

#### Third Semester

Course	Prerequisites / Comments	Credits	Semester Offered
BIOL 331 Microbiology and Lab	BIOL 151 and Lab	4	F
BIOL 280 Inquiry and Analysis in Biology and Lab	BIOL 151 and Lab or BIOL 153 and Lab	2	F
CHEM 326 Organic Chemistry I*	CHEM 114 and Lab	3	F
CHEM 326L Organic Chemistry I Lab*		1	F
Arts and Humanities		3	Varies
Social Science (Sociology)**		3	F,S
	<b>Total Credit Hours</b>	<b>16</b>	

#### Fourth Semester

Course	Prerequisites / Comments	Credits	Semester Offered
BIOL 221 Human Anatomy and Lab	BIOL 151 and Lab	4	S
CHEM 328 Organic Chemistry II*	CHEM 326 and Lab	3	S
CHEM 328L Organic Chemistry II Lab*		1	S
SPCM 101 Oral Communications*		3	F,S
MATH 281 Introduction to Statistics*		3	F,S
	<b>Total Credit Hours</b>	<b>14</b>	

### THIRD YEAR

Fifth Semester			
Course	Prerequisites / Comments	Credits	Semester Offered
BIOL 311 Principles of Ecology and Lab	BIOL 151 and Lab; or BIOL 153 and Lab	4	F Odd Years
BIOL 325 Physiology** and Lab	BIOL 151 and Lab; or BIOL 153 and Lab; or Biol 221 and Lab; or CHEM 112 and Lab	4	F
PHYS 211 University Physics I* and Lab	Math 123 or Math 125	4	F
ENGL 201 Composition II*	ENGL 101	3	F,S
	<b>Total Credit Hours</b>	<b>15</b>	
Sixth Semester			
Course	Prerequisites / Comments	Credits	Semester Offered
BIOL 371 Genetics and Lab	BIOL 101 and Lab; or Biol 151 and Lab	4	S Even Years
CHEM 460 Biochemistry**	CHEM 326 and Lab	3	S Even Years
BIOL 303 Intro to Biological Instrumentation	BIOL 151 and Lab; and CSC 105	3	S Odd Years
PHYS 213 University Physics II* and Lab	MATH 123 and PHYS 211 and Lab	4	S
Elective		1	
	<b>Total Credit Hours</b>	<b>15</b>	

### FOURTH YEAR

Seventh Semester			
Course	Prerequisites / Comments	Credits	Semester Offered
BIOL 422 Immunology and Lab	BIOL 151 and Lab; and CHEM 112 and Lab	3	F Even Years
BIOL Elective		4	Varies
EXS/HIM/HLTH/MAHIMTH/PHYS Elective		3	Varies
Social Science (ex. Abnormal Psychology)**		3	Varies
	<b>Total Credit Hours</b>	<b>13</b>	
Eighth Semester			
Course	Prerequisites / Comments	Credits	Semester Offered
BIOL 343 Cell Molecular Biology and Lab	BIOL 151 and Lab	4	S Odd Years
BIOL 498 Undergrad. Research	Consent of instructor	2	F,S,U
BIOL 335 Introduction to Bioinformatics	BIOL 151 and Lab	3	S Even Years
ENGL 379 Tech Communications		3	S
Arts and Humanities	ENG 201	3	Varies
	<b>Total Credit Hours</b>	<b>15</b>	

\* Required for all medical schools

\*\* Required or recommended by most medical schools

Information is subject to change. This is not a contract.

Semester: F = Fall; S = Spring; SU = Summer (online only)