

Biology

Bachelor of Science

Pre-Medical Concentration

2019 Undergraduate Bulletin

Tier 2 (Math ACT 19-24, Math SAT 500-590)

General College Curriculum (43 SH)				Hours	Major Requirements (39 SH)				Hours
Campbell Freshman Seminar	CUFS	100	1	_____	Basic Biology	BIOL	111	4	_____
Introduction to Christianity	CHRS	125	3	_____	Cellular & Molecular Biology	BIOL	201	4	_____
English Fundamentals ¹	ENGL	100	3	_____	Botany	BIOL	202	4	_____
Academic Writing ¹	ENGL	101	3	_____	Zoology	BIOL	203	4	_____
Academic Writing and Literature	ENGL	102	3	_____	Intro to Research & Scientific Lit.	BIOL	205	3	_____
Literature Elective	ENGL	2__	3	_____	Ecology	BIOL	327	4	_____
Fine Arts (Art, Music, Theater) ²		131	3	_____	Genetics	BIOL	342	4	_____
Western Civilization I OR II	HIST	111/112	3	_____	Seminar	BIOL	451	1	_____
Foreign Language I ³		101	3	_____	Biochemistry ⁸	BIOL	430	4	_____
Foreign Language II ³		102	3	_____	Animal Physiology ⁸	BIOL	437		_____
Foreign Language III ³		201	3	_____	Plant Physiology ⁸	BIOL	438		_____
Humanities/Fine Arts Elective ⁴			3	_____	Biology Elective ⁹	BIOL		4	_____
Social/Behavioral Sciences Elective ⁵			3	_____	Biology Elective ⁹	BIOL		3	_____
Humanities OR Social Science Elective ⁶			3	_____					
Lifetime Wellness	PE	185	2	_____					
Connections ⁷	CUC	100	0.5	_____					
Connections ⁷	CUC	200	0.5	_____					
					Ancillary Requirements (31 SH)				Hours
					Analytical Geometry & Calculus I	MATH	122	4	_____
					Elementary Statistics	MATH	160	3	_____
					General Chemistry I	CHEM	111	4	_____
					General Chemistry II	CHEM	113	4	_____
					Organic Chemistry I	CHEM	227	4	_____
					Organic Chemistry II	CHEM	228	4	_____
					General Physics	PHYS	221	4	_____
					General Physics II	PHYS	222	4	_____
					Open Electives ¹⁰ (minimum 11 SH)				Hours
					Trigonometry (PREREQ FOR PHYS 221)	MATH	112	3	_____

Medical School:

Students should check the specific requirements for each medical school program. Some schools may have additional requirements. The MCAT is required for admission to medical school.

Suggested Electives:

The following courses are **required** for most medical programs or content is covered on the MCAT:

- BIOL 430 Biochemistry
- BIOL 334 Microbiology & Immunology
- BIOL 221 Essentials of Human Anatomy & Physiology
- PSYC 222 General Psychology (MCAT content)
- SOCI 225 Principles of Sociology (MCAT content)

The following courses are **recommended** for most medical programs:

- BIOL 310 Advanced Human Physiology
- BIOL 335 Immunology
- BIOL 336 Medical Microbiology

A student will significantly strengthen their application to medical school with the addition of work experience in a medical setting. This work may include volunteer, CAN, EMT, medical missions work, etc. Any work which includes patient contact is preferred.

SAMPLE CURRICULUM OUTLINE***FRESHMAN YEAR**

<u>SEMESTER 1</u>				<u>HRS</u>	<u>SEMESTER 2</u>				<u>HRS</u>
Basic Biology	BIOL	111	4.0		Botany	BIOL	202	4.0	
English Fundamentals ¹	ENGL	100	3.0		Academic Writing	ENGL	101	3.0	
Trigonometry	MATH	112	3.0		Elementary Statistics	MATH	160	3.0	
Intro to Christianity	CHRS	125	3.0		Fine Arts ²		131	3.0	
Lifetime Wellness	PE	185	2.0		Foreign Language		102	3.0	
Freshman Seminar	CUCS	100	1.0		Connections	CUC	100	0.5	

SOPHOMORE YEAR

<u>SEMESTER 1</u>				<u>HRS</u>	<u>SEMESTER 2</u>				<u>HRS</u>
Zoology	BIOL	203	4.0		Cellular & Molecular Biology	BIOL	201	4.0	
General Chemistry I	CHEM	111	4.0		General Chemistry II	CHEM	113	4.0	
Intro to Research & Sci. Lit	BIOL	205	3.0		Literature Elective	ENGL	2__	3.0	
Academic Writing & Lit	ENGL	102	3.0		Analytical Geometry & Calc I	MATH	122	4.0	
Foreign Language		201	3.0						
Connections	CUC	200	0.5						

JUNIOR YEAR

<u>SEMESTER 1</u>				<u>HRS</u>	<u>SEMESTER 2</u>				<u>HRS</u>
Microbiology & Immunology ⁹	BIOL	334	4.0		Genetics	BIOL	342	4.0	
Organic Chemistry I	CHEM	227	4.0		Organic Chemistry II	CHEM	228	4.0	
General Physics I	PHYS	221	4.0		General Physics II	PHYS	222	4.0	
General Psychology ⁵	PSYC	222	3.0		Principles of Sociology ⁶	SOCI	225	3.0	

SENIOR YEAR

<u>SEMESTER 1</u>				<u>HRS</u>	<u>SEMESTER 2</u>				<u>HRS</u>
Biochemistry ⁸	BIOL	430	4.0		Ecology	BIOL	327	4.0	
Seminar	BIOL	451	1.0		Open Elective ¹⁰			4.0	
Western Civ. I or II	HIST	111/112	3.0		Open Elective ¹⁰			4.0	
Essentials of Human A & P ⁹	BIOL	221	4.0		GCC Humanities Elective ⁴			3.0	
Open Elective ¹⁰			3.0						

**actual degree plan may differ, students should meet with their academic advisor to create a plan specific and unique to their interests/background*