

# MEDICINE AND HEALTH CONCENTRATION, BIOLOGICAL SCIENCES (BS)

## Course Requirements

Course	Title	Quarter Hours
BIO 250	CELL BIOLOGY	4
Select two of the following: <sup>1, 2</sup>		8
BIO 201	HUMAN ANATOMY	
BIO 210	MICROBIOLOGY	
CHE 340 & CHE 341	BIOCHEMISTRY I and EXPERIMENTAL BIOCHEMISTRY I	
BIO 307 or BIO 308	ANIMAL PHYSIOLOGY or HUMAN PHYSIOLOGY	
CHE 342 & CHE 343	BIOCHEMISTRY II and EXPERIMENTAL BIOCHEMISTRY II	
Select three courses from the following, at least one of which must have a lab:		12
BIO 201	HUMAN ANATOMY	
BIO 307	ANIMAL PHYSIOLOGY	
BIO 308	HUMAN PHYSIOLOGY	
BIO 210	MICROBIOLOGY	
BIO 220	BIOTECHNOLOGY	
BIO 270	COMPARATIVE VERTEBRATE ANATOMY	
BIO 311	HISTOLOGY	
BIO 330	DEVELOPMENTAL BIOLOGY	
BIO 339	CELLULAR NEUROBIOLOGY	
BIO 340	BEHAVIORAL NEUROSCIENCE	
BIO 341	TOPICS IN NEUROBIOLOGY	
BIO 342	COGNITIVE NEUROSCIENCE	
BIO 347	TOPICS IN MEDICAL BACTERIOLOGY	
BIO 348	THE BIOLOGY OF INFECTION	
BIO 349	TOPICS IN MICROBIOLOGY AND BIOTECHNOLOGY	
BIO 352	ADVANCED COMPARATIVE PHYSIOLOGY	
BIO 360	MOLECULAR BIOLOGY	
BIO 362	ADVANCED GENETIC ANALYSIS	
BIO 370	IMMUNOBIOLOGY	
BIO 375	INTRODUCTION TO PHARMACOLOGY	
BIO 380	CANCER BIOLOGY	
BIO 381	TOPICS IN CANCER	
BIO 385	MAMMALIAN REPRODUCTION	
BIO 386	ENDOCRINOLOGY	
CHE 340 & CHE 341	BIOCHEMISTRY I and EXPERIMENTAL BIOCHEMISTRY I	
CHE 342 & CHE 343	BIOCHEMISTRY II and EXPERIMENTAL BIOCHEMISTRY II	
BIO 390	SPECIAL TOPICS <sup>3</sup>	

Select three additional majors-level Biology courses; one must be a lab course<sup>4</sup> 12

<sup>1</sup> Each professional program in health requires different courses from the list below. Please consult with an academic advisor to help you select the ones that will support your applications.

<sup>2</sup> Students may substitute HLTH 301 AND HLTH 302 for BIO 201 AND BIO 307 or BIO 201 AND BIO 308. Students who opt to take HLTH 301 and HLTH 302 cannot receive credit for any of the following courses: BIO 201, BIO 307, and BIO 308. BIO 201 and BIO 307 or BIO 308 do not need to be taken as a combination.

<sup>3</sup> Students can request permission from the department to have a BIO 390 class count for one of the requirements if appropriate.

<sup>4</sup> CHE 234 & 235, 340 & 341, 346, HLTH 301, 302, 320, and NEU 201 also fulfills this requirement.

It is strongly recommended that students who wish to take the MCAT take an ethics course as part of their Philosophical Inquiry Domain and PSY 105, PSY 106 & SOC 101 for their Social, Cultural, and Behavioral Inquiry. Biology courses other than the General Biology sequence that have any Scientific Inquiry domain designation do not generate credit toward the major or minor.

## Open Electives

Open elective credit also is required to meet the minimum graduation requirement of 192 hours.