

# Health Science Emphasis

## HUMAN BIOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b> <sup>1</sup>		41-44
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
ENG COMP 105	English Composition II: Composition and Rhetoric <sup>2</sup>	
<b>Choose one (of 2) Anatomy and Physiology options:</b>		
HUM BIOL 204 or BOTH	Anatomy and Physiology	
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
MATH 260	Introductory Statistics	
<b>Choose one of the following courses:</b>		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
<b>Choose one of the following options:</b>		
PHYSICS 103 & PHYSICS 104	Fundamentals of Physics I and Fundamentals of Physics II	
PHYSICS 201 & PHYSICS 202	Principles of Physics I and Principles of Physics II	
<b>Choose one of the following 3 options:</b>		
COMM 133 or COMM 166	Fundamentals of Public Address Fundamentals of Interpersonal Communication	
OR		
Any literature course, e.g., ENGLISH 104 Introduction to Literature		
OR		
One year of any college-level foreign language		
<b>Upper-Level Courses</b>		32-33
<b>Choose three of the following course options:</b>		
BIOLOGY 303 or HUM BIOL 310	Genetics Human Genetics	
BIOLOGY 307	Cell Biology	
HUM BIOL 402	Human Physiology	
NUT SCI 300	Human Nutrition	
<b>Required Courses</b>		
BIOLOGY 302	Principles of Microbiology	
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	
CHEM 330 or CHEM 311	Biochemistry Analytical Chemistry	
<b>Health Science Electives (minimum of 8 credits):</b>		
<b>Minimum of two upper-level laboratory courses.</b> <sup>3</sup>		

BIOLOGY 304	Genetics Laboratory
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 402	Advanced Microbiology
BIOLOGY/CHEM 408	Molecular Biology Laboratory
BIOLOGY 411	Developmental Biology Laboratory
CHEM 331	Biochemistry Laboratory
HUM BIOL 341	Human Anatomy Laboratory
HUM BIOL 351	Kinesiology
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 423	Immunology Lab
HUM BIOL 427	Cancer Biology Laboratory
<b>Additional Upper-Level Electives</b>	
HUM BIOL 310	Human Genetics
HUM BIOL 318	Reproductive Biology
HUM BIOL 322	Epidemiology
HUM BIOL 324	The Biology of Women
HUM BIOL 331	Science and Religion: Spirit of Inquiry
HUM BIOL 333	Principles of Sports Physiology
HUM BIOL 360	Exercise Physiology
HUM BIOL 401	Art and Science
HUM BIOL 413	Neurobiology
HUM BIOL 402	Human Physiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 422	Immunology
HUM BIOL 426	Cancer Biology
HUM BIOL 444	Endocrinology
BIOLOGY 303	Genetics
BIOLOGY 304	Genetics Laboratory
BIOLOGY 307	Cell Biology
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 309	Evolutionary Biology
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology
BIOLOGY 402	Advanced Microbiology
BIOLOGY/CHEM 407	Molecular Biology
BIOLOGY/CHEM 408	Molecular Biology Laboratory
BIOLOGY 410	Developmental Biology
CHEM 311	Analytical Chemistry
CHEM 330	Biochemistry
BIOLOGY 411	Developmental Biology Laboratory
CHEM 331	Biochemistry Laboratory
HIMT 330	Healthcare I: Terminology & Body Systems
NUT SCI 300	Human Nutrition
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Advanced Nutrition and Metabolism
NUT SCI 486	Medical Nutrition Therapy II
Maximum of ONE Psychology course	
PSYCH 308	Physiological Psychology (Maximum of ONE Psychology Course)

PSYCH 435	Abnormal Psychology
PSYCH 450	Health Psychology

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Total Credits

73-77

- 1 It is highly recommended that as **freshmen**, pre-medical and pre-dental students take BIOLOGY 201, BIOLOGY 202 and CHEM 211, CHEM 212, CHEM 213, CHEM 214 and consult and adviser.
- 2 Satisfied with an ACT English score of 32 or higher.
- 3 BIOLOGY 340 and BIOLOGY 402 are 4 credits each, all other courses in this list are 1 credit.