

Exercise Science Emphasis

HUMAN BIOLOGY Major

Code	Title	Credits
First Aid/CPR Requirement (may be met with Red Cross Certification)		0-3
HUM BIOL 116	First Aid and Emergency Care Procedures	
Writing Requirement		0-3
ENG COMP 105	English Composition II: Composition and Rhetoric	
Supporting Courses		27
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	
Choose one (of 2) Anatomy and Physiology Options:		
HUM BIOL 204	Anatomy and Physiology	
or BOTH		
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
MATH 260	Introductory Statistics	
HUM BIOL 210	Prevention and Treatment of Athletic Injuries	
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I Principles of Physics I	
Choose one of the following 3 options:		
COMM 133 or COMM 166	Fundamentals of Public Address Fundamentals of Interpersonal Communication	
OR		
Any literature course, e.g., English104 Introduction to Literature		
OR		
One year of any college-level foreign language		
Upper-Level Courses		30
HUM BIOL 333	Principles of Sports Physiology	
HUM BIOL 351	Kinesiology	
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism	
NUT SCI 300	Human Nutrition	
Choose one of the following courses:		
BIOLOGY 303 or HUM BIOL 310	Genetics Human Genetics	
Organic Chemistry options		
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory	
OR		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
Laboratory Electives (choose 1 course from the following courses):		
BIOLOGY 302	Principles of Microbiology	
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
HUM BIOL 341	Human Anatomy Laboratory
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 423	Immunology Lab
HUM BIOL 427	Cancer Biology Laboratory
Additional Upper-Level Electives	
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 361	Human Physiology Lab - Exercise and Metabolism
HUM BIOL 401	Art and Science
HUM BIOL 402	Human Physiology
HUM BIOL 413	Neurobiology
HUM BIOL 422	Immunology
HUM BIOL 426	Cancer Biology
HUM BIOL 444	Endocrinology
BIOLOGY 302	Principles of Microbiology
HUM BIOL 495	Research in Human Biology
HUM BIOL 497	Internship
HUM BIOL 498	Independent Study
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 407	Molecular Biology
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
CHEM 303	Organic Chemistry II
CHEM 305	Organic Chemistry Laboratory II
CHEM 330	Biochemistry
CHEM 331	Biochemistry Laboratory
HIMT 330	Healthcare I: Terminology & Body Systems
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
(Only) ONE course in Psychology may be used for upper-level electives.	
PSYCH 308	Physiological Psychology
PSYCH 435	Abnormal Psychology
PSYCH 450	Health Psychology