

2017-2018 B.S. Biology – Pre-Health Concentration

UNIVERSITY CORE

COLLEGE CORE

A. Core Foundations

CORE 101	_____	3
CORE 102	_____	3
HNRS 103*	_____	3
CORE 201	_____	3
COMS 114	_____	
PHIL 111: 213	_____	
CORE 202	_____	3
PHIL 112	_____	

NOTE: Courses listed in multiple areas can only be used to fulfill a single area requirement.

Students can use two courses with their major prefix to fulfill core requirements.

B. Core Skills & Knowledge**

MATHEMATICAL SCIENCES (3SH)	
MATH 119, 138, 151, 152	_____ 3
NATURAL SCIENCES (4 SH)	
CHEM 101	_____ 4
HUMANITIES (3 SH)	
_____	_____ 3
One of the following: CLSS:110 CCST: 110 ENGL 200, HIST 101, 102 PHIL 111, 112, 200; POSC 110; RELN 111, 112, 203, 206	
VISUAL & PERFORMING ARTS (3 SH)	
_____	_____ 3
One of the following: ART 111, 215, 216 CVPA 266 DNCE 111 MUSC 100, 121, 123 THEA 100, 180	
SOCIAL/BEHAV. SCIENCES (3 SH)	
_____	_____ 3
SOCY 110 or 121 recommended	
One of the following: ANSC 101, APST 200 ECON 205, 206, GEOG 101, 102, 103 HIST 111, 112 POSC 120 PSYC 121 RELN 205 SOCY 110, 121	

A. National & International Perspectives**

U. S. PERSPECTIVES (3 SH)	
ECON 205/206 recommended	_____ 3
One of the following: APST 200 ECON 101, 205, 206, ENGL 203 GEOG 201, 202, 203 HIST 111, 112 POSC 120, SOCY 110	
GLOBAL PERSPECTIVES (3SH)	
GEOG 140 recommended	_____ 3
One of the following: CVPA 266, ENGL 201, 202 FORL 103 GEOG 101, 102, 140, 280 HIST 101, 102 INST 101 ITEC 112 PEAC 200 RELN 112, 205, SOCY 121, THEA 180 WMST 101, WMST 101	

B. Supporting Skills & Knowledge

NATURAL SCIENCES OR MATH (3-4 SH)	
STAT 219	_____ 3
HUMANITIES, VISUAL & PERFORMING ARTS, OR FOREIGN LANGUAGES (3-4 SH)	
_____	_____ 3-4
One of the following: CLSS 110 CCST 110 ENGL 200 HIST 101, 102 PHIL 111, 112, 200; POSC 110; RELN 111, 112, 203, 206; CVPA 266; Or ART 100, 215, 216 DNCE 111, MUSC 100, 121, 123 THEA 100, 180 Or CHNS 101: 102, 201: 202 ARAB 101, 102, 201, 202, FORL 100, 109, 200, 210, 209, 309, 409; FREN 100, 200:210, 300, 320 GRMN 100, 200: 210, 300 LATN 101 102, 201, 350; RUSS 100, 200, 210, 300; SPAN 101: 102, 105 201, 202	
SOCIAL/ BEHAV. SCI. OR HEALTH & WELLNESS (3SH)	
SOCY 110 or 121 recommended	_____ 3
One of the following: ANSC 101, APST 200 ECON 205, 206 GEOG 101, 102, 103 HIST 111, 112 POSC 120; PSYC 121 RELN 205 SOCY 110, 121 HLTH 111,200, NURS 111 NUTR 214; RCPT 200	

Biology Major - Pre-Health Concentration

Course number	Credits	Course name	Fall/Spring	Prerequisites (BIOL prerequisites require C or better)
BIOL 160*	_____ (2)	Introductory Seminar in Biology	F/S	Freshmen only
BIOL 460*	_____ (2)	Advanced Seminar in Biology	F/S	BIOL 131, 132, 231, and 232 (232 may be concurrent)
*OR Transfer students or others who do not take BIOL 160 must take 4 hours of BIOL 460 (2:2) or 2 hours BIOL 460 plus one additional 3XX/4XX level BIOL elective (excluding BIOL 310, 311, 322, 334, 491, 492 and 495).				
BIOL 131	_____ (4)	Ecology and Adaptation	F/S	
BIOL 132	_____ (4)	Biology of Cells and Microorganisms	F/S	
BIOL 231	_____ (4)	Genetics, Evolution, and Development	F/S	BIOL 132
BIOL 232	_____ (4)	Organismal Biology	F/S	BIOL 131
BIOL 131, 132, 231 and 232 may only be taken TWICE, and must be completed with C or higher before taking any 3XX or 4XX level BIOL Electives.				
CHEM 101	_____ (4)	General Chemistry	F/S/SU	
CHEM 102	_____ (4)	General Chemistry	S/SU	CHEM 101
B.S. Requirements				
CHEM 301	_____ (4)	Organic Chemistry I	F/SU	CHEM 102
CHEM 302	_____ (4)	Organic Chemistry II	S/SU	CHEM 301
STAT 219	_____ (3)	Statistics for Biology	F/S/SU	
MATH 119/138/151/152	_____ (3)	MATH 151 highly recommended	F/S/SU	

Physics Requirement

Choose one of the following two combinations:

PHYS 111:112	_____ (4:4)	General Physics	F/S/SU	MATH 137 or equivalent
PHYS 221:222	_____ (4:4)	Physics	F/S	MATH 151

Microscopic Biology Requirement

Choose one of the below options:

BIOL 405	_____	Histology		C or better in BIOL 310, 311, 322, 351, 410 or 411
BIOL 408	_____	Principles of Microbiology	F/S	BIOL 131, 132, 231 & 232
BIOL 450	_____	Molecular Biology	F	BIOL 131, 132, 231, 232 & CHEM 102

Physiology Requirement

BIOL 410:411	_____ (4:4)	Human Anatomy and Physiology for Science Majors I and II		C or better in BIOL 231, CHEM 101:102 & CHEM 302
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Biochemistry Requirement

BIOL 471	_____ (3)	Biochemistry	F	BIOL 105 or 132; CHEM 302
BIOL 472*	_____ (3)	Biochemistry	S	BIOL 471

*BIOL 472 is not required but highly recommended

A minimum of 7 credit hours chosen from the below courses: (Courses taken for requirements listed above may not also be counted as electives)

BIOL 301 Bioethics (2)	BIOL 409 Virology (4)	BIOL 434 Evolutionary Development (3)
BIOL 337 Immunology (4)	BIOL 419 Introduction to Molecular Bioinformatics (3)	BIOL 450 Molecular Biology (4)
BIOL 351 Comparative Animal Physiology (4)	BIOL 430 Genes and Development (3)	BIOL 472 Biochemistry II (3)
BIOL 361 Parasitology (4)	BIOL 432 The Eukaryotic Cell (4)	BIOL 477 Neuroscience (4)
BIOL 405 Histology (4)	BIOL 433 Cancer Biology (3)	BIOL 478 Endocrinology (4)
BIOL 408 Principles of Microbiology (4)		BIOL 479 Medical Physiology (3)