

# 2019-2020 B.S. Biology General Biology Concentration

## UNIVERSITY CORE

### A. Core Foundations

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

### B. Core Skills & Knowledge

<b>MATHEMATICAL SCIENCES (3-4 SH)</b>
MATH 119, 138, 168, 171
<b>NATURAL SCIENCES (4 SH)</b>
CHEM 101
<b>HUMANITIES (3 SH)</b>
PHIL112 recommended
One of the following: CLSS110 CCST110 ENGL200 HIST101, 102 PHIL111, 112, 200 POSC110 RELN111, 112, 203, 206
<b>VISUAL/PERFORMING ARTS (3 SH)</b>
One of the following: ART100, 215, 216 CVPA266 DNCE111 MUSC100, 121, 123 THEA100, 180
<b>SOCIAL/BEHAV. SCIENCES (3 SH)</b>
SOCY110/121 or PSYC121 recommended
One of the following: ANSC101 APST200 ECON205, 206 GEOG101, 102, 103 HIST111, 112 POSC120 PSYC121 RELN205 SOCY110, 121

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

\*Honors students take HNRS103 in place of CORE101 & 102.

## COLLEGE CORE

### B. Supporting Skills & Knowledge

<b>NATURAL SCIENCES OR MATH (3-4 SH)</b>
STAT 219
<b>HUMANITIES, VISUAL/PERFORMING ARTS, OR FOREIGN LANGUAGES (3-4 SH)</b>
One of the following: CLSS110 CCST 110 ENGL200 HIST101, 102 PHIL111, 112, 200 POSC110 RELN111, 112, 203, 206 CVPA266 ART100, 215, 216 DNCE111, MUSC100, 121, 123 THEA100, 180 CHNS101, 102, 201, 202 ARAB101, 102, 201, 202 FORL100, 109, 200, 210, 209, 309, 409 FREN100, 200, 210, 300, 320 GRMN100, 200, 210, 300 LATN101 102, 201, 350 RUSS101, 102, 200, 210, 300 SPAN101, 102, 105, 201, 202
<b>SOCIAL/ BEHAV. SCI. OR HEALTH &amp; WELLNESS (3SH)</b>
SOCY110/121, NUTR214, or HLTH200 recommended
One of the following: ANSC101 APST200 ECON205, 206 GEOG101, 102, 103 HIST111, 112 POSC120 PSYC121 RELN205 SOCY110, 121 HLTH 111, 200 NURS111 NUTR214 RCPT200

Biology Major Requirements	Credits	Term	Prerequisites
BIOL160: Introductory Seminar*	2	Fall/Spring	First-year status
BIOL131: Ecology & Adaptation	4	Fall/Spring	
BIOL132: Cells & Microorganisms	4	Fall/Spring	
BIOL231: Genetics, Evolution, & Development	4	Fall/Spring	C or better in BIOL132
BIOL232: Organismal Biology	4	Fall/Spring	C or better in BIOL131
BIOL460: Advanced Seminar	2	Fall/Spring/Summer	BIOL131, 132, 231, 232 (231 or 232 may be concurrent)
CHEM111: General Chemistry I	4	Fall/Summer	
CHEM112: General Chemistry II	4	Spring/Summer	CHEM111
CHEM301: Organic Chemistry I	4	Fall/Summer	CHEM112
CHEM302: Organic Chemistry II	4	Spring/Summer	CHEM301
STAT219: Statistics for Biology	3	Fall/Spring/Summer	
MATH119 or 137 or 168:169 or 171	3-6	Fall/Spring/Summer	

\*Students who do not take BIOL160 must take two BIOL460 seminars.

**Concentration elective hours (26-30 credits):** Students must select one of the following options:

Students must select either 26 credits of Biology elective courses or 22 credits of Biology electives courses and 6-9 credits hours of approved non-biology courses listed below. Biology electives may be chosen from any of the Biology courses numbered 200 or higher except those listed as not counting for the Biology major (e.g., BIOL 310, BIOL 311, BIOL 322, BIOL 334). Students are advised to consider all the department's electives and to choose those most appropriate to their goals.

The following approved non-biology courses may be used to fulfill 6-9 credits of Biology electives, in combination with 22 credits of Bio electives:

PHYS 111:112 General Physics I & II or PHYS 221:222 Physics I & II  
CHEM 478 Medicinal Chemistry  
CRJU 382 Wildlife Crime and Conservation and Law Enforcement  
ECON 375\* Environmental Economics  
ENGL 306 Professional Writing  
ENGL 406 Advanced Technical Writing  
ENGL 454 Literature and the Environment  
GEOS 241\* Environmental Regulation  
GEOS 250 Introduction to GIS

GEOS 315 Intermediate GIS  
GEOS 335 Biogeography  
GEOL 365 Oceanography  
GEOL 408\* Spatial Data Applications in Geology  
NURS 321 Pathophysiology  
NUTR 300 Medical Terminology  
PSYC 378\* Brain and Behavior  
SOCY 370\* Environmental Sociology

\*these courses have prerequisites that do not count toward the biology major, but may satisfy Core elective requirements

Students with particular interests are strongly encouraged to include the following courses in consultation with their faculty advisor.

Environmental Fields	Pre-Medicine, Dentistry, Physical Therapy, Veterinary	Graduate work in Molecular Biology
BIOL390: Conservation Biology	PHYS111:112 General Physics <b>or</b>	BIOL337: Immunology
GEOS250	PHYS221:222 Physics	BIOL408: Microbiology
BIOL392	CHEM215	BIOL450: Molecular Biology
BIOL333	BIOL476	BIOL/CHEM471: Biochemistry I
GEOS241 or ECON375 or SOCY370	MATH 151 or 168:169 or 171	

**Graduation Requirements: 120 total credits and an overall GPA ≥ 2.0 are required for graduation.** To graduate with a major in biology a student must attain an overall major grade point average of 2.0 or higher. Major GPA is calculated by using BIOL 131, BIOL 132, BIOL 160, all biology courses 200-level or higher, all courses outside of biology used as electives (including PHYS/CHEM/GEOS/ECON/SOCY used as an elective), and any course used as an elective by academic petition.