B.S. – BIOLOGY / Health Professions concentration
Effective Fall 2018. (An overall GPA of at least 2.8 is required to remain in this concentration.)

GENERAL EDUCATION PROGRAM* (47 credits)

* Refer to the Undergraduate Catalog to determine the specific courses that can be counted under each section.

ALL STUDENTS are prohibited from counting more than two (2) courses from the same participating academic program toward their General Education Requirements.

FOUNDATIONS (15 credits)
___ First Yr. Seminar(3) UNIV 101
___ Academic Writing (3 cr.) ENG 114 or 115
___ Oral Communication (3 cr.) HCS 100
___ History (3 cr.) HIS 105
___ Quantitative (Q) (3 cr.) MAT 211
(MAT 211 - required by Biology major)

INTERCONNECTIONS (9 credits)
At least 3 credits each must come from the Diversity (D) and from the Global Perspectives (G) categories.

Diversity (D)
Global Perspectives (G)
Foreign Language (F) **

CITIZENSHIP & RESPONSIBILITY (6 credits)
Minimum of 2 courses within C&R, with no more than 1 course attributed to the same program goal.

Citizenship (S)
Ethical Reasoning (E)
Critical Reasoning (R)

NATURAL WORLD & TECHNOLOGY (9 credits)
At least 6 credits must come from the Natural World (N) category.

Natural World (N)
(10 cr required by Biology major)
___ BIO 161 (4 cr)
___ CHM 121 (3 cr)
___ PHY 121 (3 cr)
___ Technology (T) ***

CREATIVITY & EXPRESSION (6 credits)
3 credits must come from the Literature (L) category and the other 3 credits from either Arts (A) or Creativity (C).

Literature (L)
Arts (A)
Creative (C)

** Foreign Language only required for BA majors.
*** Technology only required for certain majors.

Free Electives (12-17 credits)
A minimum of 120 credits is required for graduation.

MAJOR REQUIREMENTS (56-61 credits)

Biology Requirements (35-36 cr.)
Core Courses:
___ BIO 161 – Princ. Bio: Cell Structure & Function (4) (see gen ed Category N)
___ BIO 162 – Princ. Bio: Organismal Diversity (4)
___ BIO 220 – Microbiology (4)
___ BIO 260 – Genetics (4)
___ BIO 499 – Capstone Seminar in Biology (1)

Physiology elective (4 cr.) choose one:
___ BIO 350 – Human Physiology (4) OR
___ BIO 351 – Animal Physiology (4)

Anatomy elective (3-4 cr.) choose one:
___ BIO 370 – Comparative Anatomy (4) OR
___ BIO 371 – Human Anatomy (4) OR
___ BIO 375 – Histology (3)

Cellular elective (3 cr.) choose one:
___ BIO 385 – Cell Biology (3) OR
___ BIO 418 – Molecular Biology (3)

Breadth elective (3 cr.) choose one:
___ BIO 208 – Field Biology (3)
___ BIO 210 – Field Zoology (3)
___ BIO 230 – Botany (3)
___ BIO 242 – Ecology (3)
___ BIO 330 – Animal Behavior (3)
___ BIO 362 – Invertebrate Zoology (3)
___ BIO 363 – Vertebrate Zoology (3)
___ BIO 406 – Mammalogy (3)
___ BIO 412 – Ichthyology (3)
___ BIO 417 – Herpetology (3)
___ BIO 419 – Ornithology (3)
___ BIO 430 – Princ. of Evolution (3)

Additional Biology Electives (9 cr.)
(Professional program requirements should be considered when choosing electives. Only 3 credits of internship/research may be used here.)

COGNATE COURSES REQUIRED FOR THE BIOLOGY MAJOR (21-25 cr.)

Chemistry Requirements (13-16 cr.)
___ CHM 121 – Chemical Bonding (Cat. N) with
    CHM 125 lab IB (1)
___ CHM 122 – Chemical Dynamics (3) with
    CHM 126 lab IIB (1)
___ CHM 221 – Organic Chemistry I (3) with
    CHM 225 lab IIIB (1)
    CHM 227 – Introduction to Biochemistry (4)
___ CHM 222 – Organic Chemistry II (3) with
    CHM 226 lab IVB (1)
and
___ CHM 301 – Biochemistry I (3)

Physics Requirements (5 cr.)
___ PHY 121 – Introductory Physics I (Cat. N) with
    PHY 123 – Physics I lab (1)
___ PHY 122 – Introductory Physics II (3) with
    PHY 125 – Physics II lab (1)

Math Requirements (3-4 cr.)
___ MAT 211 (see Quantitative gen ed)
___ MAT 117 – Applied Statistics (3)
OR MAT 217 – Statistics I (4)

REVISED August 2018