B.S. – BIOLOGY / Clinical Sciences concentration
Effective Fall 2018. (This concentration requires completion of a clinical program at an affiliated institution in order to earn the BS in Biology.)

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.

REVISED August 2018

MAJOR REQUIREMENTS

Biology Requirements

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 350 – Human Physiology (4)
___ BIO 385 – Cell Biology (3)
___ BIO 300 – Careers/Health Professions (1)

Plus a minimum of 7 additional biology credits. See additional electives required/recommended for each clinical concentration, below:

MEDICAL TECHNOLOGY

REQUIRED:
___ BIO 409 – Immunology (3)
___ BIO 324 – Pathogenic Microbiology (3)
___ BIO 374 – Hematology (2)

ALSO RECOMMENDED IF TIME PERMITS:
___ BIO 317 – Parasitology (3)
___ BIO 418 – Molecular Biology (3)

CYTOTECHNOLOGY:

STRONGLY RECOMMENDED:
___ BIO 371 – Human Anatomy (4)
___ BIO 418 – Molecular Biology (3)

HISTOTECHNOLOGY:

REQUIRED:
___ BIO 371 – Human Anatomy (4)
___ BIO 375 – Histology (3)

RESPIRATORY THERAPY:

REQUIRED:
___ BIO 350 – Human Anatomy (4)
___ BIO 409 – Immunology (3)

ALSO RECOMMENDED IF TIME PERMITS:
___ ENG 238 – Technical/Prof. Writing (3)

Chemistry Requirements (13 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)
* Organic II w/lab may be substituted for CHM 227, however, CHM 227 is recommended.

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)

CREDITS FROM THE CLINICAL YEAR

Up to 30 credits will be transferred back to SU after successful completion of the clinical program.