



B.S. Biology (Biomedical Sciences Track)

Catalog Year 2019-2020

NAME _____ SID _____ Date _____

GENERAL EDUCATION COURSES:

i. Freshman Composition *(Complete one sequence.)*

ENGL 101 (3) _____ ENGL 102 (3) _____ or
(ENGL 106*) _____
ENGL 107 (3) _____ ENGL 108 (3) _____ or
ENGL 109H (3) _____ MCWA _____

ii. Mathematics: Satisfied by math foundation courses.

iii. Second Language *(Second Semester Proficiency)*

TIER ONE COURSES:

i. Individuals and Societies 150 (6 units)

ii. Traditions and Cultures 160 (6 units)

TIER TWO COURSES:

i. Arts (3 units)

ii. Humanities (3 units)

iii. Individuals and Societies (3 units)

iv. Diversity Emphasis Requirement: *One course must meet this requirement. It can be double-dipped with any Tier One or Tier Two course.*

Note: Courses offered only in the fall, spring, or summer semesters are labeled with F, S, or SS.

**Some students may be required to take ENGL 106 prior to taking ENGL 107. If not, ENGL 107 and ENGL 108 will complete foundation composition requirements.*

***At least one major course must have a lab component. At least one major course must be writing emphasis.*

FOUNDATION COURSES (33-35 units):

General Chemistry

CHEM 151 (4) _____ CHEM 152 (4) _____
or
CHEM 141 & 143 (4) _____ CHEM 142 & 144 (4) _____

Organic Chemistry

CHEM 241A & 243A (4) _____
CHEM 241B & 243B (4) _____

Mathematics

MATH 122A/B (5) or 125 (3) _____
MATH 129 (3) or MATH 263 (3) or ECOL 379 (3; S) _____

Physics

PHYS 102 & 181 (4) or PHYS 141 (4) _____
PHYS 103 & 182 (4) or PHYS 241 (4) _____

Lower Division Biology

ECOL 206 or ECOL 220 or ECOL 223 or
ECOL 230 (S) or ECOL 249 (F) or ECOL 280 (F) (3) _____

CORE REQUIREMENTS (23 units):

Introductory Biology

MCB 181R & L (4) _____
ECOL 182R & L (4) _____

Ecology

ECOL 302 (4; F) _____

Genetics

ECOL 320 (4; F; SS) _____

Evolutionary Biology

ECOL 335 (4; S) _____

Biochemistry

BIOC 384 (3) _____

MAJOR ELECTIVES (26 units): Elective courses must be upper division and may only count towards one category below.

Physiology (8): _____

Genetics (3): _____

Cell/Molecular Biology (6): _____

Biology of Organisms (Micro) (3): _____

Biology of Organisms (Macro) (3): _____

Science & Society (3): _____

ADDITIONAL ELECTIVE REQUIREMENTS:**

Lab Component Course: _____

Writing Emphasis Course: _____

Academic Plan for a B.S. in Biology (Biomedical Sciences Track)

SEMESTER 1	Units
CHEM 151 or 141 + 143	4
MATH 122A/B or MATH 125	3 – 5
ENGL 101	3
Tier 1	3
TOTALS	13 – 15

SEMESTER 3	Units
CHEM 241A + 243A	4
MCB 181R + 181L	4
200-Level ECOL (or Tier 1)	3
Second Language	4 – 5
TOTALS	15 - 16

SEMESTER 5	Units
ECOL 320	4
UD Organismal Elective	4
UD PSIO Elective	4
BIOC 384	3
TOTALS	15

SEMESTER 7	Units
ECOL 302	4
PHYS 102 + 181	4
UD Cell Bio Elective	3
Tier 2	3
UD Genetics Elective	3
TOTALS	14

SEMESTER 2	Units
CHEM 152 or 142 + 144	4
ECOL 182R + 182L	4
MATH 129 or MATH 263 or ECOL 379	3
ENGL 102	3
TOTALS	14

SEMESTER 4	Units
CHEM 241B + 243B	4
Tier 1 (or 200-Level ECOL)	3
Second Language	4 – 5
UD Organismal Elective	4
TOTALS	15 – 16

SEMESTER 6	Units
ECOL 335	4
UD PSIO Elective	4
Tier 1 and Tier 2	6
TOTALS	15 - 16

SEMESTER 8	Units
PHYS 103 + 182	4
Tier 2	3
UD Cell Bio Elective	3
UD Science & Society Elective	3
TOTALS	16

TOTAL UNITS NEEDED: 120 UPPER DIVISION UNITS NEEDED: 42

Please note that this checklist indicates BIOLBS: Biomedical Sciences requirements.
Additional coursework not listed on this page is required in order to graduate.