

B.S. Biology (Biomedical Sciences Track)

Catalog Year 2020 - 2021

NAME _____ SID _____ Date _____

GENERAL EDUCATION REQUIREMENTS

Freshman Composition (*Complete one sequence.*)

ENGL 101 (3) _____ ENGL 102 (3) _____ *or*
(ENGL 106) _____

ENGL 107 (3) _____ ENGL 108 (3) _____ *or*
ENGL 109H (3) _____

Foundation Mathematics (*Placement may require coursework in addition to foundation requirement.*)

MATH 122 A + B (5) *or* MATH 125 (3)
or MATH 119A (4) _____

Second Language (*Second Semester Proficiency*)

TIER ONE COURSES:

Individuals and Societies 150 (*6 units*)

Traditions and Cultures 160 (*6 units*)

TIER TWO COURSES:

Arts (*3 units*)

Humanities (*3 units*)

Individuals and Societies (*3 units*)

Diversity Emphasis Requirement: (*One course must meet this requirement. It can be double-dipped.*)

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

FOUNDATION COURSES (30 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) _____

Lower Division Biology (*Choose one.*)

ECOL 206 Environmental Bio
ECOL 220 Evolutionary Medicine (F; SS)
ECOL 223 Human Genetics & Evol (S)
ECOL 230 Natural History of the SW (S)
ECOL 249 Evolution (F)
ECOL 250 How Science Works (S)

Physics

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

Mathematics

MATH 129 (3) *or* MATH 263 (3) *or* ECOL 379 (3; S) _____

CORE REQUIREMENTS (23 units):

Introductory Biology

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

Ecology

ECOL 302 (4; F) _____

Genetics

ECOL 320 (4; SS; F) _____

Evolutionary Biology

ECOL 335 (4; S) _____

Biochemistry

BIOC 384 (3) _____

MAJOR ELECTIVES (26 units): (*Elective courses may only count towards one category below.*)

Physiology (8): _____

Genetics (3): _____

MCB (6): _____

Micro-organismal (3): _____

Macro-organismal (3): _____

Science & Society (3): _____

ADDITIONAL ELECTIVE REQUIREMENTS:

Lab Component Course: _____

Writing Emphasis Course: _____

University Requirements

120 total units _____ 42 upper division units _____

2.00+ Cum GPA _____ 2.00+ Major GPA _____

56+ university units _____ 18/30 UA major units _____

30 UA units _____ MCWA

Academic Plan for B.S. in Biology (Biomedical Sciences Sub-Plan)

Semester 1

CHEM 151 or 141 + 143	4
MATH 122A+B <i>or</i> MATH 125 <i>or</i> MATH 119A	3 – 5
ENGL 101	3
Tier 1	3 – 6
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Total	13 – 18

Semester 2

CHEM 152 or 142 + 144	4
ECOL 182R + ECOL 182L	4
MATH 129 <i>or</i> MATH 263 <i>or</i>	
ECOL 379	3
ENGL 102	3
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Total	14

Semester 3

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

Semester 4

CHEM 241B + CHEM 243B	4
Tier 1 (or 200-Level ECOL)	3
Second Language	4-5
Macro-organismal Elective	3
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Total	14 – 15

Semester 5

ECOL 320	4
MCB Elective	3
Physiology Elective	4
BIOC 384	3
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Total	14

Semester 6

ECOL 335	4
Physiology Elective	4
Genetics Elective	3
Tier 1	3 – 6
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Total	14 – 17

Semester 7

ECOL 302	4
PHYS 102 + PHYS 181	4
MCB Elective	3
Science & Society Elective	3
Tier 2	3
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Total	17

Semester 8

PHYS 103 + PHYS 182	4
Tier 2	6
Micro-organismal Elective	3
General Electives	3
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Total	16

Total units required: 120

Upper division units required: 42

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