## Biology (Pre-Med Concentration) Degree Planning Guide

Students must complete a minimum of 42 credits under the BIOL or SUST prefix to earn a degree. Students must complete all core classes ( $22-27$ credits) and six courses from at least three of the upper level baskets ( 3 must be 300 level or higher with a minimum of 18 credits): Students choosing an emphasis shall select 4 courses from one basket and 2 courses from at least two of the other baskets.

In order to graduate $\mathbf{1 2 8}$ credit hours must be completed. Last $\mathbf{3 0}$ credit hours must be completed in residency.
This is an unofficial degree planning sheet. It is subject to change. 2/21

## SUGGESTED COURSES FOR PRE-MED CONCENTRATION

BIOL 101/102 OR 115, BIOL 351, CHEM 320, SOC 101, PSYC 101, some programs require two semesters of calculus.

Some programs like to see microbiology, immunology, and pathophysiology.

Biochemistry 2 is recommended for students taking the MCAT.

Some medical schools may require 2 semesters of Anatomy. If this is the case BIOL 303 or 350 are possible selections.

## BIOLOGY CORE REQUIREMENTS: 22-27 CREDITS

BIOL 117 General Biology I (4)
BIOL 260 General Genetics (4) @ SCl 498-Advanced Topics (2) S or BIOL 401 Research 1 (3) @ or SUST 499 (3) for Sustainability conc or BIOL 499 (3) for Applied Microbiology conc. or MLS conc.

BIOL 118 General Biology II (4)
BIOL 270 Evolution (4) S \#
BIOL 115 - Intro to Human Anatomy and
Physiology (4)
OR
BIOL 101 and BIOL 102 (8) - Anatomy and Physiology 1 and 2
(101) and S (102)

## UPPER LEVEL BASKETS: MINIMUM 18 CREDITS

## Sustainability \& Environmental Stewardship

SUST 101: Intro to Sustainability (3)
SUST 201: Environmental Science and Health (3)
SUST 150: Sustainability Exploration Seminar (3) S
SUST 310: Climate Science (3)
SUST 350: Sustainability Expedition S
SUST 375: Strategies in Sustainability (3) F

## Ecology

BIOL 216 Plants \& People (4) S*
BIOL 231 Conservation Biology (3)F*@
BIOL 314 Botany (4) S* ${ }^{*}$
BIOL 352 General Ecology (4) F* \$ or ^
BIOL 381 Ornithology (4) S* ^
BIOL 304 Zoology (3) F* \#

## Molecular \& Microbiology

BIOL 316 General Microbiology (4) \#
BIOL 351 Cell Biology (4) \#
BIOL 390 Biotechnology (4) F \# BIOL
391 Molecular Genetics (4) S* \$ BIOL
416 Microbial Genetics (4) F*\& BIOL
418 Applied Microbiology (4) S* \&

## Anatomy \& Physiology

BIOL 220 Exercise Science (3) @*
BIOL 303 Comparative Vertebrate Anatomy (4) F*
BIOL 350 Intro to Human Anatomy (4) S* (*) or > BIOL 354 Immunology (3) *\&
BIOL 394 Advanced Physiology (3) F @ or > BIOL 395 Pathophysiology (3) S !*

## NON-BIOLOGY SCIENCE AND MATH REQUIREMENTS: MINIMUM 30 CREDITS

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## GENERAL EDUCATION: 33 CREDITS

I. Skills/Processes for Literacy (3 courses)
A. INTD 101 University Seminar
B. ENGL 101 Composition: Theme Writing
C. ENGL 104 Composition: The Essay

## II. Humanities (5 courses)

A. Fine Arts (1 course): Art Music, Performance
B. Literature/Language ( 1 course): ENGL or Foreign Language
C. Philosophy (1 course)
D. Humanities Electives (2 courses)

1. HUM 101/301 or HIST 131
2. One additional elective from ENGL, The Arts/Aesthetics, Foreign Language, HUM, PHIL, REL
III. Social Science (3 courses)
A. American History or Government
B. Social Science Electives (2 courses from ECON, HIST, PSCI, PSYC, SOC)

## IV. Natural Science/Quantitative Reasoning (met through major)

## V. General Education Electives (2 courses): From the College of Arts and Sciences

## ALTERNATE COURSE OFFERINGS

## Fall Even Years: Conservation Biology, <br> Comparative Vertebrate Anatomy

Fall Odd Years: Ecology, Zoology, Physical Chemistry 1, Microbial Genetics

Spring Even Years: Pathophys, Ex Science, Plants and People, Ornithology Physical Chemistry 2, Inorganic Chemistry, Applied Microbiology

Spring Odd Years: Intro to Gross, Molecular Genetics, Botany

PREREQUISITES F=Fall S=Spring
@=117/118, \# = $260>=101 / 102$
\& = $316 \quad \$=270 \quad!=394\left({ }^{*}\right)=115$

## COREQUISITES

$\wedge=270 \quad a=394$


[^0]:    MATH 141 Elementary Stats (3)
    F/S OR MATH 420 (3) Statistics for Sci Research OR PSYC 341 Understanding Statistical Inference

    PHYS 153 Calculus-Based Physics I (4) F (recommended) OR PHYS 103 Gen. Physics I (4) F

    PHYS 154 Calculus-Based Physics II (4) S (recommended) OR PHYS 104 Gen. Physics II (4) S

