

BIOLOGY PROGRAM PLANNER

Revised 3/08

MAJOR SEQUENCE REQUIREMENTS (55 CREDITS)

FRESHMAN:

___ General Biology I w/ lab (Bio 111/4 cr.)	___ General Biology II w/ lab (Bio 112/4 cr.)
___ General Chemistry I w/ lab (Chem 113/4 cr.)	___ General Chemistry II w/ lab (Chem 114/4 cr.)
___ Intro to Statistics & Data Analysis and Applications to Life Science (Math 128/4 cr.)	___ Calculus (Math 125/4 cr.)
___ CARP 211 - Career Planning I (1 cr.)#	___ CARP 211 – Career Planning I (1 cr.)#

SOPHOMORE:

___ Genetics w/ lab (Bio 223/4 cr.)	___ Biochemistry w/ lab (Bio 224/4 cr.)
___ Organic Chemistry I w/ lab (Chem 241/4cr.)	___ Organic Chemistry II w/ lab (Chem 242/4 cr.)

JUNIOR:

___ Biology Seminar (Bio 370/2 cr.)**	___ Biology Seminar (Bio 370/1 cr.)**
___ CARP 412 – Career Planning II (1 cr.)##	___ CARP 412 – Career Planning II (1 cr.)##
___ General Physics I w/ lab (Phys 111/4 cr.)	___ General Physics II w/ lab (Phys 112/4 cr.)

SENIOR:

___ Biological Research I (Bio 490/4 cr.)***	___ Biological Research I (Bio 490/4 cr.)***
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* Fall or Spring Semester of the Freshman Year

** Sophomore/Junior Diagnostic Project (Fall or Spring Semester of Junior Year)

*** Senior Integrated Assessment (Fall or Spring Semester of Senior Year)

CARP 211 recommended ## CARP 412 recommended. (Fall or Spring Semester)

In addition to the major sequence requirements, a Biology major must also complete 4 courses, at least one course from each of three sub-discipline categories listed below. At least two of those courses, each from a different category, must include a laboratory component. A course may be used to satisfy a single requirement in only one category even though the course may be cross-listed in another category.

CATEGORY I: MOLECULAR/CELLULAR BIOLOGY

Biol 326	Immunology	4 credits
Biol 330	Evolutionary Analysis & Bioinformatics	3 credits
Biol 336	Cell Biology	4 credits
Biol 448	Microbiology	4 credits
Biol 450	Molecular Genetics (DNA Science)	4 credits*
Biol 451	Molecular Genetics (RNA Science)	4 credits*
Biol 453	Systems Biology	4 credits

CATEGORY II: ORGANISMAL BIOLOGY

Biol 349	Animal Behavior (cross listed as Neur 349)	4 credits
Biol 350	Vertebrate Embryology	4 credits
Biol 355	Comparative Vertebrate Anatomy	4 credits
Biol 360	Histology	4 credits
Biol 430	Ecology	4 credits
Biol 447	Physiology	4 credits

CATEGORY III: POPULATION BIOLOGY

Biol 310	Computer Modeling in Biology & Environmental Science	3 credits
Biol 330	Evolutionary Analysis & Bioinformatics	3 credits
Biol 349	Animal Behavior (cross listed as Neur 349)	4 credits
Biol 401(A-F)	Special Environmental Topics (cross-listed as Enst 401)	3 or 4 credits
Biol 410	Ecological/Environmental Sampling/Analysis (cross listed as Enst 410)	3 credits
Biol 430	Ecology	4 credits