

College of Liberal Arts & Sciences: B.A. Biology Major
For students entering Fall '14 and after

All courses on this sheet taken as part of the Biology major must be passed with a grade of C or better; transferred courses must have approval from the Division of Biology to receive major credit.

Prerequisite courses indicated on the back of this page.

1. FOUNDATION AND CORE COURSES

Take all courses (26 credits)

- _____ BIOL 150 Biological Foundations (4)
- _____ BIOL 211 Cell Biology (4)
- _____ BIOL 212 Principles of Genetics (4)
- _____ BIOL 213 Structure and Function of Organisms (4)
- _____ BIOL 314 Community and Systems Biology (4)
- _____ BIOL 226 Biostatistics (4)
- _____ BIOL 390 Junior Seminar (1)
- _____ BIOL 490 Biology Research Seminar (1)

2. SPECIALIZATION

Take 12 credit hours. Recommend completion of one research intensive course.

GENERAL ELECTIVES

- _____ BIOL 106 Field Botany (4) [for major credit upon completion of special requirements]
- _____ BIOL 300 Topics in Biology (4)
- _____ BIOL 302 General Microbiology (4)
- _____ BIOL 307 Anatomy and Physiology: Nerves, Muscles, Skeleton (4)
- _____ BIOL 308 Anatomy and Physiology: Viscera (4)
- _____ BIOL 315 Genetics and Evolution of Populations (4)
- _____ BIOL 322 Botany (4)
- _____ BIOL 346 Animal Nutrition (4)
- _____ BIOL 348 Animal Behavior (4)
- _____ BIOL 354 Ecology (4)
- _____ BIOL 357 Conservation Biology (4)
- _____ BIOL 375 Comparative Vertebrate Anatomy (4)
- _____ BIOL 376 Animal Physiology (4)
- _____ BIOL 402 Immunology (4)
- _____ BIOL 420 Biochemistry: Proteins and Metabolism (4)

RESEARCH INTENSIVE ELECTIVES

- _____ BIOL 400 Research Topics (4-5)
- _____ BIOL 425 Physiological Plant Ecology (4)

3. RELATED COURSES

Take all courses; additional courses in physics and math are strongly recommended.

- _____ CHEM 105 General Chemistry I (4)
- _____ CHEM 106 General Chemistry II (4)

- _____ CHEM 310 Basic Organic Chemistry (3)
- or
- _____ CHEM 315 Organic Chemistry I (4) and
- _____ CHEM 316 Organic Chemistry II (4)

Student Name _____

Student Number _____

Class of _____

Other major, if any _____

Minors, if any _____

SIGNATURES:

Student _____ Date _____

Advisor _____ Date _____

Division Chair _____ Date _____

4. If you are planning to be a teacher, this line must be signed by the Chair of the Division of Education to indicate that certification requirements have been discussed.

_____ Date _____

Chair

Date

Biology Course Prerequisites.

BIOLOGY COURSE	REQUIRED PREREQUISITE
BIOL 211 - Cell Biology	'C' or better in BIOL 150 and in CHEM 105, or their equivalent. CHEM 106 is recommended as a pre- or co-requisite.
BIOL 212 - Principles of Genetics	'C' or better in BIOL 211 and in CHEM 106
BIOL 213 - Structure and Function of Organisms	'C' or better in BIOL 211
BIOL 226 - Biostatistics	((BIOL 201/202) or BIOL 211) as Pre- or Co-requisite
BIOL 302 - General Microbiology	(BIOL 201/202, or BIOL 211) and (CHEM 310 or 315)
BIOL 307 - Anatomy and Physiology: Nerves, Muscles, Skeleton	BIOL 201 or 202 or 211
BIOL 308 - Anatomy and Physiology: Viscera	BIOL 307
BIOL 314 - Community and Systems Biology	'C' or better in BIOL 212 and in BIOL 213
BIOL 315 - Genetics and Evolution of Populations	BIOL 212 or BIOL 201/202; BIOL 213 recommended
BIOL 322 - Botany	BIOL 150 or ENVS 101
BIOL 345 - Vertebrate Biology	BIOL 226
BIOL 346 - Animal Nutrition	(BIOL 201/202) or BIOL 211
BIOL 348 - Animal Behavior	(BIOL 201/202 or BIOL 211) and BIOL 226
BIOL 354 - Ecology	BIOL 150 or 201 or ENVS 101
BIOL 357 - Conservation Biology	BIOL 150 or 201 or ENVS 101
BIOL 375 - Comparative Vertebrate Anatomy	BIOL 201/202 or BIOL 211
BIOL 376 - Animal Physiology	BIOL 375
BIOL 390 - Junior Seminar	(BIOL 201/202) or BIOL 211 as Pre- or Co-requisite.
BIOL 402 - Immunology	BIOL 211 or 362; BIOL 302 recommended.
BIOL 420 - Biochemistry: Proteins and Metabolism	Either [BIOL 211 and CHEM 316] or [(BIOL 202 or 211) and (CHEM 343 or CEMS 235), and (CHEM 310 or CHEM 315)].
BIOL 425 - Physiological Plant Ecology	(BIOL 201/202 or 213), BIOL 226, and (CHEM 310 or 315)
BIOL 490 - Biology Research Seminar	BIOL 226 and at least one 300-400 level BIOL course.