

DEPARTMENT OF BIOLOGICAL SCIENCES REQUIREMENTS

HRS.

MAJOR - BIOLOGY (32 HOURS)

<u>1</u>	Biol. 200+ required (first semester freshman class)
<u>5</u>	Biol. 204 required
<u>5</u>	Biol. 205 required
<u>4</u>	Biol. 350* General Genetics required *with or without Biol. 352 +required beginning Fall '06

18 (+17 when counting BIOL 200) hours of electives including 10 hours at the 400-level. At least one course in each of the following three groups:

GROUP I. BIOLOGY OF ORGANISMS

<u>4</u>	Biol. 313	Microbiology
<u>4</u>	Biol. 331	Human Anat. & Phys. I
<u>4</u>	Biol. 332	Human Anat. & Phys. II
<u>4</u>	Biol. 343	General Botany
<u>3</u>	Biol. 374	Marine Biology
<u>4</u>	Biol. 405	General Parasitology
<u>3</u>	Biol. 406	Medical Entomology
<u>4</u>	Biol. 414	Plant Taxonomy & Evolution
<u>4</u>	Biol. 424	Algology
<u>3</u>	Biol. 426	Pathogenic Microbiology
<u>4</u>	Biol. 427	Invertebrate Biology
<u>4</u>	Biol. 435	Entomology
<u>3</u>	Biol. 472	Ichthyology
<u>4</u>	Biol. 473	Mammalogy
<u>3</u>	Biol. 476	Herpetology
<u>3</u>	Biol. 477	Ornithology

GROUP II. ECOLOGY, EVOLUTION AND BEHAVIOR

<u>3</u>	Biol. 354	Pop. & Comm. Ecology
<u>3</u>	Biol. 409	Conservation Biology
<u>3</u>	Biol. 410	Conservation Biology in Practice
<u>3</u>	Biol. 416	Landscape Ecology
<u>3</u>	Biol. 419	Neuroethology
<u>4</u>	Biol. 420	Animal Behavior
<u>4</u>	Biol. 422	Plant Ecology
<u>3</u>	Biol. 425	Limnology
<u>3</u>	Biol. 441	Chemical Ecology
<u>3</u>	Biol. 445	Environmental Microbiology
<u>3</u>	Biol. 449	Epidemiology
<u>3</u>	Biol. 451	Evolution

GROUP III. CELL, MOLEC. AND REGULATORY BIOLOGY

<u>4</u>	Biol. 407	Cell Biology
<u>3</u>	Biol. 408	Molecular Biology
<u>4</u>	Biol. 411	Animal Physiology
<u>4</u>	Biol. 417	Plant Physiology
<u>3</u>	Biol. 418	Neurophysiology
<u>3</u>	Biol. 421	Molecular Biotechnology
<u>3</u>	Biol. 431	Developmental Biology
<u>4</u>	Biol. 438	Endocrinology
<u>3</u>	Biol. 439	Immunobiology
<u>3</u>	Biol. 440	Molecular Neurobiology
<u>3</u>	Biol. 442	Plasmid Biology
<u>3</u>	Biol. 443	Microbial Physiology
<u>4</u>	Biol. 446	Scanning Electr. Micro.
<u>3</u>	Biol. 447	Microbial Genetics

A biology major must take 32 credit hours of biology courses. You must complete Biology 200, 204, 205, and 350. Biology 204 and 205 may be taken in any order. Biology 200 must be taken first semester freshman year. Note the special instructions concerning the remaining 18 (+17 when counting BIOL 200) credit hours of biology.

GROUP I. You must complete at least one course from this group. In order to complete 18 (+17 when counting BIOL 200) credit hours of biology, in addition to Biology 200, 204, 205, and 350, you will be taking more than a single course from each of the three Biology groups. Obviously, as a biology major, you should take as many biology courses as possible. The selection of courses is yours to make. Typically, a sophomore will enroll in 300-level biology courses, but certain 400-level courses may also be taken as a sophomore. Check the catalog for course descriptions and prerequisites.

GROUP II. You must complete a minimum of one course from this group.

GROUP III. You must complete a minimum of one course from this group. It is best to complete one year of introductory Chemistry prior to enrolling in courses in this group. Some courses will also require organic chemistry as a prerequisite or co-requisite.

DEPARTMENT OF BIOLOGICAL SCIENCES REQUIREMENTS (continued)

HRS.

BIOLOGY ELECTIVES (These courses do not meet any group requirement.)

<u> 3 </u>	Biol. 301	Field Biology of Vertebrates
<u> 2 </u>	Biol. 310	Biology of Aging
<u> 1 </u>	Biol. 352	Genetics Lab
<u> 3 </u>	Biol. 370	Intro. to Inland Marine Res.
<u> 1-4 </u>	Biol. 401	Research
<u> 1-5 </u>	Biol. 403	Biological Experience at Stone Lab (Summer only)
<u> 2 </u>	Biol. 431L	Developmental Biol. Lab
<u> 2 </u>	Biol. 444	Microbial Physiology Lab
<u> 3 </u>	Biol. 450	Teaching Evolution and the Nature of Science
<u> 1 </u>	Biol. 470	Readings
<u> 1 </u>	Biol. 475	Marine Biology Field Trip
<u> 1-3 </u>	Biol. 489	Internship
<u> 1 </u>	Biol. 490	Seminar
<u> </u>	Biol. _____	_____
<u> </u>	Biol. _____	_____

Classes taken from this group will count as credits toward graduation and credits toward the biological sciences major. However, they *will not* fulfill biology group requirements.

OTHER SCIENCE CORE REQUIREMENTS

CHEMISTRY

<u> 5 </u>	Chem. 125 or 135	General Chem.
<u> 4 </u>	Chem. 127 or 137	General Chem.
<u> 1 </u>	Chem. 128 or 138	General Chem. Lab
<u> 4 </u>	Chem. 306	Organic Chemistry
	OR	
<u> 5 </u>	Chem. 341	Organic Chemistry
	AND	
<u> 3 </u>	Chem. 344	Organic Chemistry
<u> 1 or 2 </u>	Chem. 345 or 346	Organic Chemistry Lab
<u> 3 </u>	Chem. 308	Biochem. (optional)
<u> 1 </u>	Chem. 309	Biochem. Lab (optional)
<u> 3 </u>	Chem. 201	Quant. Chem. Anal. (optional)
<u> </u>	Chem. _____	_____
<u> </u>	Chem. _____	_____

Chemistry. You must complete one year of General Chemistry. Most biology majors take Chem. 125, 127, and 128. Chem. 135, 137, and 138 are Honors Chemistry. The first sequence is perfectly adequate for biology majors.

You must also complete one or two semester(s) of organic chemistry (Chem. 306 or Chem. 341 and 344/345 or 344/346). Pre-health professional students must complete the two-semester sequence (Chem. 341 and 344/345 or 344/346). Straight-line biology majors need complete only Chem. 306. If you are interested in a career in cellular or molecular biology or biotechnology, you should complete the two-semester sequence (Chem. 341 and 344/345 or 344/346).

PHYSICS

<u> 5 </u>	Phys. 201	College Physics I
<u> 5 </u>	Phys. 202	College Physics II (optional)
<u> </u>	Phys. _____	_____

Physics. Biology majors must complete Physics 201. Pre-health professional students must complete Physics 201 and 202.