

Biology Department (revised Spring '09)

Molecular Biology Requirements

Name _____

14 courses are required altogether, plus a capstone.

Grade	Course	
Required	BIO 1111	Principles of Biology I
Required	BIO 1117	Topics in Biology

Grade	Course	
Required	CHE 1101	Introductory Chemistry I
Required	CHE 1102	Introductory Chemistry II
Required	CHE 2217	Organic Chemistry I
Required	CHE 3321	Biochemistry I

The courses above, plus eight courses chosen from groups I-IV below, plus a capstone.
Of the eight, take at least one course from each group.

GROUP I - Cell/Molecular Biology (at least the courses listed as required)

Grade	Lab (*)	Course	
Required		BIO 2203	Genetics*
	This or BIO 3323	BIO 3301	Immunology*
Required		BIO 3310	Cell Biology*
	This or BIO 3309	BIO 3311	Advanced Genetics - Molecular
Required		BIO 2208	Molecular Biology*
Required		BIO 33--	Genomics*

GROUP IV - Population/Ecosystem Biology (at least one course)

Grade	Lab (*)	Course	
		BIO 2209	Environmental Health
		BIO 2234	Marine Biology*
		BIO 3317	Ecology* %
		BIO 22xx	Coral Reef Biology
		BIO 2202	Evolution

GROUP II - Organismal Biology (at least one course)

Grade	Lab (*)	Course	
	This or BIO 3311	BIO 3309	Advanced Genetics - Human
		BIO 3316	Animal Physiology*
	This or BIO 3301	BIO 3323	Developmental Biology*
		BIO 2202	Comparative Anatomy*
		BIO 2206	Epidemiology
		BIO 2225	Endocrinology
		BIO 2221	Neurobiology

CAPSTONE (One of these)

Grade	Course	
	BIO 4492	Senior Poster Presentation
	BIO 4493	Senior Capstone Course

**Alternate lab courses (none required)

Grade	Lab (*)	Course	
		BIO 1172	Tropical Marine Biology
		BIO 2211	Human Physiology

GROUP III - Diversity (at least one course)

Grade	Lab (*)	Course	
		BIO 2205	Invertebrate Zoology*
		BIO 2204	Botany*
		BIO 22xx	Field and Taxonomic Botany*
		BIO 22xx	Microbiology*
		BIO 2218	Parasitology*
		BIO 2201	Vertebrate Diversity*

* denotes a lab course

** BIO 1172 and 2211 may be included as part of the five required labs
but you still need seven courses from the groups.

% Either Ecology or Conservation Biology, but not both

GPA -- 2.00 IN THESE COURSES