

BIOLOGICAL SCIENCES MAJOR REQUIREMENTS

Fall, 2009

Required core courses	Bio 150 Cells, Physiology and Development (F/S)	4
	Bio 152 Genetics, Genomics and Evolution (F/S)	4
	Bio 154 Biodiversity, Ecology and Conserv. (F/S)	4
	Chm 111 or 118 (F)	5
	Statistics (MTH 245 recommended - F/S)	4

Distribution requirement (one from each area)	Cells, Physiology and Development Area	
	Bio 200 Animal Physiology (F)	4
	Bio 202 Cell Biology (F)	4
	Bio 204 Microbiology (S)	3
	Bio 206 Cell Physiology	4
	Bio 300 Neurophysiology (S)	4
	Bio 302 Developmental Biology (S)	4
	Bio 304 Histology (S)	4
	Bio 306 Immunology (F)	4
	Bio 308 Intro to Biological Microscopy (S)	3
	Bio 310 Cellular and Molecular Neuroscience (F)	4
	Bio 312 Plant Physiology (S)	4
	Bio 320 Colloquium on Molecular Medicine (F)	4
	Bio 322 Seminar: Topics in Cell Biology	3
	Bio 323 Seminar: Topics in Dev. Biology (F)	3
	Genetics, Genomics and Evolution Area	
	Bio 230 Genomes and Genetic Analysis (S)	4
	Bio 232 Evolutionary Biology (S)	4
	Bio 230 Behavior Genetics (S)	4
	Bio 332 Molecular Biology of Eukaryotes (S)	4
	Bio 334 Bioinformatics and Comp. Mol. Bio.(S)	3
	Bio 350 Seminar: Topics in Molecular Biology	3
	Bio 351 Seminar: Topics in Evol. Biology	3
	Biodiversity, Ecology and Conservation Area	
	Bio 260 Invertebrate Diversity (F)	4
	Bio 262 Plant Biology (F)	4
	Bio 266 Principles of Ecology (F)	4
	Bio 268 Marine Ecology (F)	3
	Bio 272 Vertebrate Biology (S)	4
	Bio 276 Colloq.: Plant Evol.in Time & Space (S)	4
	Bio 362 Animal Behavior (F)	3
	Bio 364 Plant Ecology (F)	4

Laboratory course requirement	Six lab courses:
	• two core labs
	• one 300
	• three at 200 or 300

Core labs:	
Bio 151 Cells, Physiology and Development Lab (F/S)	1
Bio 153 Genetics, Genomics and Evolution Lab (F/S)	1
Bio 155 Biodiversity, Ecology and Conserv. Lab (F/S)	1
200 and 300 level labs:	
Bio 201 Animal Physiology Lab (F)	1
Bio 203 Cell Biology Lab (F)	1
Bio 205 Microbiology Lab (S)	2
Bio 207 Cell Physiology Lab	1
Bio 231 Genomes and Genetica Analysis Lab (S)	1
Bio 261 Invertebrate Diversity Lab (F)	1
Bio 263 Plant Biology Lab (F)	1
Bio 267 Principles of Ecology Lab (F)	1
Bio 269 Marine Ecology Lab (F)	2
Bio 273 Vertebrate Biology Lab (S)	1
Bio 301 Neurophysiology Lab (S)	1
Bio 303 Developmental Biology Lab (S)	1
Bio 305 Histology Lab (S)	1
Bio 307 Immunology Lab (F)	1
Bio 309 Biological Microscopy Lab (S)	2
Bio 311 Cellular and Mol. Neuroscience lab (F)	1
Bio 313 Plant Physiology Lab (S)	1
Bio 333 Molecular Biology of Eukaryotes Lab (S)	1
Bio 335 Bioinformatics & Comp. Mol. Bio. Lab (S)	1
Bio 363 Animal Behavior: Methods (F)	3
Bio 365 Plant Ecology Lab (F)	1
Bio 371 Microbial Diversity Lab (S)	1

Electives	(to reach 56 credits; tw
	relevant courses outside major <i>may</i> count)

One introductory level course	
Bio 101 Modern Biology for the Concerned Citizen (S)	4
Bio 103 Economic Botany: Plants and Human Affairs (S)	3
Bio 110 Introductory Colloquia (F/S)	4
Bio 120 Horticulture: Landscape Plants/Issues (F)	3
Bio 121 Horticulture: Landscape Plants/Issues Lab (F)	1
Bio 122 Horticulture (S)	3
Bio 123 Horticulture Lab (S)	1
Other elective courses	
Any 200 or 300 level course (see above)	

The major requires 56 credits; the minor requires 24 credits.

Bio 366 Biogeography (S) 4
Bio 370 Microbial Diversity (S) 4
Bio 390 Seminar: Topics in Environmental Biology 3

Independent research (Honors or Special Studies) can count toward the major

A beginning student considering a Biology major should consider taking Biology 110 or one of the three core courses, along with Chemistry 111 or 118, in the fall semester.

Advanced course requirement

Three 300 level courses (from listing above), one with lab.
Courses from another department/program *may* count