

Biology

Requirements for the Major in Biology - Molecular Biology and Genetics Track

The major requires successful completion of the following:

Course Requirements ^{1,2}

BIOL 130	Field Investigations in Biology	4
BIOL 133	Introductory Molecular Biology and Genetics ³	4
BIOL 223	Genetics (Lab)	4
BIOL 233	Molecular Cell Biology	4
BIOL 243	Molecular Methods (Lab)	4
BIOL 324	Junior Seminar	2
BIOL 424	Senior Seminar	2
CHEM 120 or CHEM 150	General Chemistry (Lab) or Advanced General Chemistry (Lab)	4
Select four of the following:		16
BIOL 208	Neurobiology	
BIOL 236	Biochemistry	
BIOL 250	Molecular Evolution	
BIOL 288 or BIOL 289	Biotechnology or Biotechnology (Lab)	
BIOL 300 or BIOL 325	Biology of Aging (Lab) or Biology of Aging	
BIOL 312 or BIOL 314	General and Human Physiology or General and Human Physiology (Lab)	
BIOL 316	Biochemistry of Metabolism and Molecular Biology (Lab)	
BIOL 318 or BIOL 328	Molecular Revolutions in Medicine or Molecular Revolutions in Medicine (Lab)	
BIOL 319 or BIOL 320	Cancer Cell Biology (Lab) or Cancer Cell Biology	
BIOL 322	Genes and Behavior	
BIOL 323	Environment and Development	
BIOL 330 or BIOL 331	Immunology (Lab) or Immunology	
BIOL 333 or BIOL 334	Developmental Biology (Lab) or Developmental Biology	
BIOL 339 or BIOL 340	Studio Course in Microbiology or Microbiology (Lab)	
BIOL 380 or BIOL 381	Genomics or Genomics (Lab)	
BIOL 388 or BIOL 389	Epigenetics or Epigenetics (Lab)	

Total Semester Hours

44

Additional Requirements

A comprehensive examination

¹ Courses numbered below 130 do not count toward the major.

² At least four of the required and elective biology courses must have a laboratory.

³ The Department of Biology will allow an AP test score of 5 or a higher level IB test score of 6 or 7 to substitute for BIOL 133. Students should be advised that mastery of the material covered in BIOL 133 is important as majors will be tested on it during their comprehensive exams.

Required for a B.S. (but not for a B.A.) in Biology

Course Requirements

Select four additional courses in mathematics, statistics, or science outside biology, including at least two lab science courses 16

Total Semester Hours 16