

Biology

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

The major requires successful completion of the following:

Code	Title	Semester Hours
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	General Chemistry (Lab)	4
or CHEM 150	Advanced General Chemistry (Lab)	
Select four of the following:		16
BIOL 208	Neurobiology	
BIOL 236	Biochemistry	
BIOL 250	Molecular Evolution	
BIOL 288	Biotechnology	
or BIOL 289	Biotechnology (Lab)	
BIOL 300	Biology of Aging (Lab)	
or BIOL 325	Biology of Aging	
BIOL 312	General and Human Physiology	
or BIOL 314	General and Human Physiology (Lab)	
BIOL 316	Biochemistry of Metabolism and Molecular Biology (Lab)	
BIOL 318	Molecular Revolutions in Medicine	
or BIOL 328	Molecular Revolutions in Medicine (Lab)	
BIOL 319	Cancer Cell Biology (Lab)	
or BIOL 320	Cancer Cell Biology	
BIOL 322	Genes and Behavior	
BIOL 323	Environment and Development	
BIOL 330	Immunology (Lab)	
or BIOL 331	Immunology	
BIOL 333	Developmental Biology (Lab)	
or BIOL 334	Developmental Biology	
BIOL 339	Studio Course in Microbiology	
or BIOL 340	Microbiology (Lab)	
BIOL 380	Genomics	
or BIOL 381	Genomics (Lab)	
BIOL 388	Epigenetics	
or BIOL 389	Epigenetics (Lab)	
Total Semester Hours		44

Code	Title	Semester Hours
------	-------	----------------

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

Code	Title	Semester Hours
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