CELL & MOLECULAR BIOLOGY CONCENTRATION, BIOLOGICAL SCIENCES (BS)

Course Requirements

Course	Title	Quarter Hours
BIO 210	MICROBIOLOGY	4
BIO 250	CELL BIOLOGY	4
BIO 360	MOLECULAR BIOLOGY	4
Select one Advanced Topics Course		4
BIO 315	TOPICS IN ECOLOGY	
BIO 319	TOPICS IN BEHAVIORAL PARASITOLOGY	
BIO 335	CONCEPTS IN EVOLUTION	
BIO 341	TOPICS IN NEUROBIOLOGY	
BIO 345	TOPICS IN PALEOBIOLOGY	
BIO 349	TOPICS IN MICROBIOLOGY AND BIOTECHNOLOGY	
BIO 347	TOPICS IN MEDICAL BACTERIOLOGY	
BIO 361	TOPICS IN MOLECULAR BIOLOGY	
BIO 390	SPECIAL TOPICS (as appropriate)	
Select two courses from the following list, one of which must be a lab course: [1]		8
BIO 309	PLANT PHYSIOLOGY	
BIO 315	TOPICS IN ECOLOGY	
BIO 321	MOLECULAR METHODS IN ECOLOGY AND EVOLUTION	
BIO 330	DEVELOPMENTAL BIOLOGY	
BIO 335	CONCEPTS IN EVOLUTION	
BIO 339	CELLULAR NEUROBIOLOGY	
BIO 341	TOPICS IN NEUROBIOLOGY	
BIO 345	TOPICS IN PALEOBIOLOGY	
BIO 347	TOPICS IN MEDICAL BACTERIOLOGY	
BIO 348	THE BIOLOGY OF INFECTION	
BIO 355	GENETIC TOXICOLOGY	
BIO 361	TOPICS IN MOLECULAR BIOLOGY	
BIO 362	ADVANCED GENETIC ANALYSIS	
BIO 365	PRINCIPLES OF TOXICOLOGY	
BIO 370	IMMUNOBIOLOGY	
BIO 375	INTRODUCTION TO PHARMACOLOGY	
BIO 380	CANCER BIOLOGY	
BIO 381	TOPICS IN CANCER	
BIO 385/485	MAMMALIAN REPRODUCTION	
BIO 386	ENDOCRINOLOGY	
CHE 340 & CHE 341	BIOCHEMISTRY I and EXPERIMENTAL BIOCHEMISTRY I	
BIO 390	SPECIAL TOPICS [2]	
Select three additional majors-level Biology courses, one must be a lab course [1,3]		12

[1] At least two of the five biology electives must have a lab.

[2] Students can request permission from the department to have a BIO 390 class count for one of the requirements if appropriate.

[3] CHE 234 & 235, 340 & 341, 346, HLTH 301, 302, 320, and NEU 201 also fulfills this requirement

Biology courses other than the General Biology sequence that have any Scientific Inquiry domain designation do not generate credit toward the major or minor.

Open Electives

Open elective credit also is required to meet the minimum graduation requirement of 192 hours.