MOLECULAR BIOLOGY INTERDISCIPLINARY MINOR

Requirements Effective Fall 2023

Students must satisfactorily complete the total credits required for the minor. Minors and interdisciplinary minors require 12 or more upper-division (300- to 400-level) credits.

Additional coursework may be required due to prerequisites.

Code	Title	Credits
Mathematics Core		
MATH 155	Calculus for Biological Scientists I (GT-MA1)	4
or MATH 160	Calculus for Physical Scientists I (GT-MA1)	
STAT 301	Introduction to Applied Statistical Methods	3
or STAT 307	Introduction to Biostatistics	
Physics Core		
Select one group from the following:		10
Group A:		
PH 121 & PH 122	General Physics I (GT-SC1) and General Physics II (GT-SC1)	
Group B:		
PH 141 & PH 142	Physics for Scientists and Engineers I (GT-SC1) and Physics for Scientists and Engineers II (GT-SC1)	
Chemistry Core		
CHEM 111	General Chemistry I (GT-SC2)	4
CHEM 112	General Chemistry Lab I (GT-SC1)	1
CHEM 113	General Chemistry II	3
CHEM 114	General Chemistry Lab II	1
CHEM 345	Organic Chemistry I	4
CHEM 346	Organic Chemistry II	4
Biology Core		
Select one group from the following:		4-5
Group A:		
BZ 310	Cell Biology	
Group B:		
LIFE 210 & LIFE 212	Introductory Eukaryotic Cell Biology and Introductory Cell Biology Laboratory	
LIFE 102	Attributes of Living Systems (GT-SC1)	4
Biochemistry Core		
BC 401	Comprehensive Biochemistry I	3
BC 403	Comprehensive Biochemistry II	3
BC 404	Comprehensive Biochemistry Laboratory	2
Microbiology Core		
MIP 300	General Microbiology	3
MIP 342	Immunology	4
Molecular Genetics Core		
BC 463	Molecular Genetics	3
or MIP 450	Microbial Genetics	
Select one group from the following:		4-6
Group A:		
BZ 350	Molecular and General Genetics	
Group B:		
LIFE 201B & LIFE 203	Introductory Genetics: Molecular/ Immunological/Developmental (GT-SC2) and Introductory Genetics Laboratory	
Group C:		
SOCR 330 & SOCR 331	Principles of Genetics and Genetics Laboratory	
Seminar		
BC 493	Senior Seminar	1
Selected Courses		
Select one course from the following:		3-4
BC 465	Molecular Regulation of Cell Function	
BZ 433	Behavioral Genetics	
MIP 420	Medical and Molecular Virology	
MIP 443	Microbial Physiology	
Advanced Laboratory		
Select four credits from the following:		4
BC 475	Mentored Research	
BC 495	Independent Study	
BC 499A	Thesis: Laboratory Research-Based	
BC 499B	Thesis: Literature Based	
BC 499C	Thesis: Literature-based in Health and Med Sci	
BC 499D	Thesis: Literature-based in Pre-Pharmacy	
BZ 495	Independent Study	
MIP 302	General Microbiology Laboratory	
MIP 343	Immunology Laboratory	
MIP 425	Virology and Cell Culture Laboratory	
MIP 495	Independent Study	
Program Total Credits:		**72-75**