MOLECULAR BIOLOGY INTERDISCIPLINARY MINOR

Requirements Effective Fall 2023

Code

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

Credits

Additional coursework may be required due to prerequisites.

Title

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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 fro	m the following:	10
Group A:		
PH 121	General Physics I (GT-SC1)	
& PH 122	and General Physics II (GT-SC1)	
Group B:		
PH 141	Physics for Scientists and Engineers I (GT-	
& PH 142	SC1)	
	and Physics for Scientists and Engineers II (GT-SC1)	
Chamiatry Cara	(61-301)	
Chemistry Core	Compared Objective L (CT CCC)	4
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 fro	m the following:	4-5
Group A:		
BZ 310	Cell Biology	
Group B:		
LIFE 210	Introductory Eukaryotic Cell Biology	
& LIFE 212	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	n 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 fro	m 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	1	
Select four credits from the following:		
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:		