

CELLULAR & MOLECULAR BIOLOGY MINOR

The Cellular & Molecular Biology minor will give you broad understanding of the foundational building blocks of all life, making connections between molecules, cells, and tissues, and exploring their functions in healthy and diseased states. There is a specialized track for Chemistry Majors as well as a general track open to all majors. The minor curriculum will develop your critical thinking and communication skills, as well as training you in modern laboratory techniques used in the field to prepare you for a multitude of careers in the life sciences, healthcare, education, and beyond.

Chemistry Major track:

Code	Title	Credits
<i>Required Courses</i>		
BI-141	Intro to Cellular and Molecular Biology	4
BI-203	Genetics	4
BI-204	Microbiology	4
<i>Electives</i>		
3 additional courses from among the following with at least one at the 300-400 level		9-12
BI-103	The Human Animal	3
BI-104	The Human Animal Laboratory (must be taken with BI-103, cannot count as a separate course.)	1
BI-140	Introduction to Organismal Biology	4
BI-200	Human Biology	4
BI-205	Research Techniques and Experimental Design	2
BI-306	Developmental Biology	4
BI-371	Advanced Topics in Cell and Molecular Biology	4
BI-372	Immunology	4
BI-375	Virology	4
BI-398	Cancer Biology	4
BT-375	Tissue Culture	4
BT-376	Biotechnology	4
BT-377	Fermentation Technology	4
BT-378	Bioinformatics	4

Or other Biology courses by permission of the Biology Department Chair.

General track:

Code	Title	Credits
<i>Required Courses</i>		
CH-112	Survey of Chemistry	4
BI-141	Intro to Cellular and Molecular Biology	4
Take one of the following courses:		
BI-203	Genetics	4
BI-204	Microbiology	4
BI-206	Medical Microbiology	4
<i>Electives</i>		
3 additional courses from among the following, with at least one course at the 300-400 level.		9-12
BI-103	The Human Animal	3

BI-104	The Human Animal Laboratory (must be taken with BI-103; cannot count as a separate course.)	1
BI-111	Social Biology	3
BI-112	Diseases and Mankind (cannot earn credit for both this course and BI-204, BI-206, or BI-207.)	3
BI-140	Introduction to Organismal Biology	4
BI-200	Human Biology	4
BI-203	Genetics	4
BI-204	Microbiology	4
or BI-206	Medical Microbiology	
BI-207	Public Health Microbiology (cannot earn credit for both this course and BI-204 or BI-206.)	3
BI-306	Developmental Biology	4
BI-371	Advanced Topics in Cell and Molecular Biology	4
BI-372	Immunology	4
BI-375	Virology	4
BI-398	Cancer Biology	4
BT-376	Biotechnology	4
BT-377	Fermentation Technology	4
BT-378	Bioinformatics	4

Or other Biology courses by permission of the Biology Department Chair.