Molecular Biology Minor

For more information, contact the Department of Biology, 513-529-3100.

The molecular biology minor is offered cooperatively by the Departments of Biology, Chemistry and Biochemistry and Microbiology.

This minor enables students to pursue in-depth a multidisciplinary study of biological phenomena at the molecular level. It provides a strong foundation for students planning careers in biotechnology or advanced work at the graduate level. A minimum 2.00 GPA is required for all courses in the minor.

Program Requirements

(18 semester hours)

Code	Title	Credit Hours
CHM 332	Outlines of Biochemistry	4
or CHM 432	Fundamentals of Biochemistry	
BIO 203	Introduction to Cell Biology	3-4
or MBI 201	General Microbiology	
MBI 365	Molecular and Cell Biology	3
or BIO 444	Molecular Biology	
Select at least one course from each of the three departments (BIO, CHM and MBI)		6-12
Select one advanced laboratory course of the following:		2-4
BIO 464	Laboratory in Cell and Molecular Biology	
CHM 438	Biochemistry Laboratory	
MBI 465	Bacteriophage Gene Expression Laboratory	
Or earn at least two credits of directed research in molecular biology		
Additional courses to bring total semester hours to 18:		
BIO 203	Introduction to Cell Biology	
BIO 342	Genetics	
BIO 361	Patterns in Development	
BIO 444	Molecular Biology	
BIO 449	Biology Of Cancer	
BIO 464	Laboratory in Cell and Molecular Biology	
BIO/CHM/CSE/ MBI 466	Bioinformatics Computing Skills	
BIO 471	Molecular Physiology	
BIO/MBI 485/ CSE 456	Bioinformatics Principles	
CHM 332	Outlines of Biochemistry	
CHM 430	Topics in Biochemistry	
CHM 432	Fundamentals of Biochemistry	
CHM 438	Biochemistry Laboratory	
CHM 471	Biophysical Chemistry I	
CHM 472	Biophysical Chemistry II	
MBI 201	General Microbiology	
MBI 365	Molecular and Cell Biology	
MBI 414	Immunology Principles	
or MBI 415	Immunology Principles and Practice	
MBI 425	Microbial Physiology	
MBI 445	Microbial Genetics	
MBI 464	Human Viruses	
MBI 465	Bacteriophage Gene Expression Laboratory	
Total Credit Hours		**18-27**