

Bioinformatics Minor

This minor is offered cooperatively by the Departments of Biology, Computer Science and Software Engineering, Microbiology, and Statistics. For information, contact the Department of Biology, 212 Pearson Hall, 513-529-3100.

Bioinformatics, or the application of computational techniques to molecular biology problems, is a fast-growing field of significant importance in both academia and industry. Students completing a bioinformatics minor will gain the basic knowledge of biology and programming needed to work in this area, as well as an understanding of how computational techniques can be used to advance our knowledge of biology and the life sciences.

Program Requirements

(19-20 semester hours)

Code	Title	Credit Hours
Required Courses		
BIO/MBI 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology	4
BIO/CSE/MBI 256	Introduction to Programming for the Life Sciences	3
or CSE 271	Object-Oriented Programming	
BIO/CHM/CSE/MBI 466	Bioinformatics Computing Skills	3
Select one of the following:		3-4
STA 363	Introduction to Statistical Modeling	
STA 402	Statistical Programming	
STA 463	Regression Analysis	
STA 466	Experimental Design Methods	
BIO, CHM, CSE, or MBI at the 200-level or above (BIO 342, MBI 365, or CSE 443 are strongly recommended)		3
BIO/MBI 485/ CSE 456	Bioinformatics Principles	3
Total Credit Hours		19-20