

BIOINFORMATICS MINOR

The Bioinformatics minor at Loyola provides students with the training and opportunities in this ground-breaking discipline, with career advancement and post-graduate possibilities for years to come.

Curriculum

Degree Requirements

The following degree requirements are for students who have declared the minor in Bioinformatics.

Code	Title	Hours
Bioinformatics Electives		
Select one of the following:		3
BIOL 387	Genomics	
BIOL 392	Metagenomics	
BIOI 397	Bioinformatics Survey	
Biology Fundamental Courses		
BIOL 101	General Biology I	3
BIOL 282	Genetics	3
BIOL 388	Bioinformatics	3
Computer Science Fundamental Courses		
MATH 215	Object-Oriented Programming with Mathematics	3
Math/Stats Fundamental Courses		
MATH 131	Applied Calculus I	3
MATH 132	Applied Calculus II	3
STAT 335	Introduction to Biostatistics	3
or STAT 203	Introduction to Probability & Statistics	
STAT 337	Quantitative Methods in Bioinformatics	3
Total Hours		27

There is no limit to courses double-dipping between the Bioinformatics minor and other majors/minors. (Please refer to other majors/minors regarding their policies.)

Required courses within the minor also satisfy the following university Core Curriculum (<https://catalog.luc.edu/undergraduate/university-requirements/university-core/>) requirements: scientific literacy (6 credits) and quantitative analysis (3 credits).

Learning Outcomes

Students minoring in Bioinformatics will be able to:

- explain genetics concepts,
- apply computational methods to biological data,
- apply statistical methods to biological data, and
- evaluate computational & statistical methods for the analysis of biological data.