MINOR IN BIOINFORMATICS

At the intersection of biology and computer science, bioinformatics is the study of applying computational tools to collect and analyze complex biological data such as genomic sequences.

A minor in Bioinformatics will give students interested in biology a foundation in programming that will complement their biology backgrounds. In addition to programming, students will take basic courses in statistics and machine learning, leading up to coursework in bioinformatics.

Please contact a department advisor for more information.

Learning Objectives

Students successfully completing this program will be able to:

1. Retrieve and use genomics and protein data.
2. Perform computational analysis of biological data using existing software, informed by an algorithmic understanding of those tools.
3. Write custom programs to complement existing software.
4. Use bioinformatics databases and resources such as the National Center for Biotechnology Information (NCBI) and Uniprot.