

CERTIFICATE IN BIOINFORMATICS

The Biological Sciences have become more and more data intensive. Many biological/biochemistry experiments, including genomic sequencing, gene expression experiments, Nuclear Magnetic Resonance, Mass Spec, Etc., generate huge quantities of data. This certificate ensures that the student has the computational skills necessary to analyze and manipulate such large quantities of data.

Professional Certificate - Bioinformatics

College Humanities & Sciences

Degree Specific Credits: 12

Required Cumulative GPA: 2.0

Catalog Year: 2017-2018

Summary

Required Courses	6
Elective Courses	3
Total Hours	9

Required Courses

Rule: 6 Credits

Select two of the following:	6
CSCI 135 Fund of Computer Science I	
CSCI 250 Computer Mdlng/Science Majors	
CSCI 451 Computational Biology	
Total Hours	6

Minimum Required Grade: C-

Elective Courses

Rule: Student must complete one of the following courses

Note: BIOB 488 may fulfill this requirement if not taken as part of the core.

Select one of the following:	3
BCH 480 Advanced Biochemistry I	
BIOB 486 Genomics	
BIOB 488 Programming for Biology	
CSCI 444 Data Visualization	
CSCI 448 Pattern Recognition	
Total Hours	3

Minimum Required Grade: C-