

BIOINFORMATICS CERTIFICATE

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.

Post-Secondary Certificate - Bioinformatics

College of Humanities & Sciences

Degree Specific Credits: 12

Required Cumulative GPA: 2.0

Catalog Year: 2018-2019

Summary

Code	Title	Hours
Required Courses		6
Elective Courses		6
Total Hours		12

Required Courses

Code	Title	Hours
Complete all of the following courses:		6
CSCI 135	Fund of Computer Science I	
or BIOB 488	Programming for Biology	
CSCI 451	Computational Biology	
Total Hours		6

Minimum Required Grade: C-

Elective Courses

Note: BIOB 488 may only fulfill this requirement if not taken as a required course.

Code	Title	Hours
Complete two of the following courses:		6
BCH 480	Advanced Biochemistry I	
BIOB 486	Genomics	
BIOB 488	Programming for Biology	
CSCI 444	Data Visualization	
CSCI 448	Pattern Recognition	
Total Hours		6

Minimum Required Grade: C-