BIOINFORMATICS - MINOR

Program Requirements

Code	Title	Semester Credit Hours
Required Courses		
Introduction to Computation		4
CSCE 110	Programming I	
or CSCE 110	Introduction to Computer Science Concepts and Programming	
Bioinformatic Fundamentals		3
BIOL 451	Bioinformatics	
Computational Bioinformatics		3
BIOL 350	Computational Genomics	
Upper Level Biology		
Biological Molecules and Processes		3-4
Select one of the following:		
BIOL 213	Molecular Cell Biology	
GENE 302	Principles of Genetics	
GENE 320/ BIMS 320	Biomedical Genetics	
Applied Bioinformatics		3-4
Select one of the following:		
BICH 419/ GENE 419	Computational Techniques for Evolutionary Analysis	
BICH 464/ GENE 464	Bacteriophage Genomics	
BIOL 430	Biological Imaging	
BIOL 450/ BICH 450	Genomics	
STAT 446	Statistical Bioinformatics	
VTPP 438	Analysis of Genomic Signals	
Total Semester Credit Hours		**16**

Minimum of 16 hours required.

Minimum of 6 hours at the 300- to 400-level.

Must make a grade of C or better in all required Bioinformatics minor courses.

Students must complete at least one course in each of the five categories. If a course in statistics is not already required for a student's major, then STAT 211, STAT 301, STAT 302, or STAT 303 is strongly recommended. Independent research experiences through 491 courses is encouraged.