BIOINFORMATICS MINOR

Bioinformatics Minor Requirements

Bioinformatics is a rapidly expanding interdisciplinary field focused on collecting, processing, and analyzing vast amounts of biological and biomedical data, and it has become an indispensable component of biomedical research. The Minor in Bioinformatics offers an opportunity for students majoring in other disciplines to acquire the foundations of the field and add in-demand skills to their portfolio.

Students are responsible for completing the prerequisites for all courses taken for the Bioinformatics minor.

Code	Title	Credits
18 Hours Required		
All of the Following		**9**
BIOI 1000	DIGITAL HEALTH AND BIOLOGICAL SYSTEMS	
BIOI 3000	APPLIED BIOINFORMATICS	
CIST 1400	INTRODUCTION TO COMPUTER SCIENCE I	
Select 9 hours from the following list, including at least 3 credits of courses with ACMP or BIOI prefixes		**9**
ACMP 2000	DATA ANALYSIS AND MACHINE LEARNING	
ACMP 3200	DATA STRUCTURES AND ALGORITHMS FOR APPLIED COMPUTING AND INFORMATICS	
BIOI 4500	INDEPENDENT STUDY [1]	
BIOL 4050	SUPERVISED RESEARCH IN BIOLOGY [1]	
BIOI 4860	BIOINFORMATICS ALGORITHMS	
BIOI 4870	DATA MANAGEMENT AND KNOWLEDGE DISCOVERY IN COMPUTING AND INFORMATICS	
BIOI 4890	COMPUTERIZED GENETIC SEQUENCE ANALYSIS	
BIOI 4950	SPECIAL TOPICS IN BIOINFORMATICS	
BIOL 3020	MOLECULAR BIOLOGY OF THE CELL	
BIOL 4130	MOLECULAR GENETICS	
BIOL 4140	CELLULAR BIOLOGY	
CSCI/MATH 4150	GRAPH THEORY & APPLICATIONS	
CSCI 4850	DATABASE MANAGEMENT SYSTEMS	

[1] The number of combined credits from BIOI 4500 and BIOL 4050 cannot exceed 3.