

# CROSS DISCIPLINARY STUDIES MINOR IN BIOINFORMATICS

DATA 442	Bioinformatics Capstone II	2
<b>Total units</b>		<b>41-47</b>

- <sup>1</sup> Courses in this minor may have additional prerequisites that will not count towards the minor.
- <sup>2</sup> Please check prerequisites. Your ability to select specific elective courses may vary depending upon the curriculum requirements for your major.

## Biology/Biochemistry

BIO 161	Introduction to Cell and Molecular Biology	4
BIO 302	Human Genetics <sup>1</sup>	3-5
or BIO 303	Survey of Genetics	
or BIO 351	Principles of Genetics	
or CHEM 373	Molecular Biology	

## Depth in Biology/Biochemistry

Select 6-10 units from the following: <sup>1,2</sup> 6-10

BIO 305	Biology of Cancer	
BIO 308	Genetic Engineering Technology	
BIO 327	Wildlife Ecology	
BIO 361	Principles of Animal Physiology	
BIO 413	Evolutionary Medicine	
BIO 414	Evolution	
BIO 415	Biogeography	
BIO 442	Behavioral Ecology	
BIO 444	Population Ecology	
BIO 446	Ecosystem Ecology	
BIO 475	Molecular Biology Laboratory	
BIO 476	Gene Expression Laboratory	
BOT 311	Plants, People and Civilization	
BOT 326	Plant Ecology	
CHEM 202	Orientation to Biotechnology	
CHEM 314	Biochemistry: Fundamentals and Applications	
CHEM 369	Biochemical Principles	
MCRO 320	Emerging Infectious Diseases	
MCRO 342	Public Health Microbiology	
MCRO 421	Food Microbiology	
MCRO 433	Microbial Biotechnology	
MSCI 330	Technologies for Ocean Discovery	

## Computer Science

CSC 101	Fundamentals of Computer Science	4
CSC 202	Data Structures	4
CSC 203	Project-Based Object-Oriented Programming and Design	4

## Statistics

STAT 302	Statistics II <sup>1</sup>	4
or STAT 312	Statistical Methods for Engineers	
or STAT 313	Applied Experimental Design and Regression Models	

## Bioinformatics

BIO/CHEM 441	Bioinformatics Applications <sup>1</sup>	4
or CSC 448	Bioinformatics Algorithms	
DATA 301	Introduction to Data Science	4
DATA 441	Bioinformatics Capstone I	2