

# MINOR IN BIOINFORMATICS

## ADMISSIONS

Information on the admission process is available on the Office of Undergraduate Admissions website (<https://undergraduate.admissions.gwu.edu/>). Applications may be submitted via the Common Application (<https://go.gwu.edu/commonapp/>).

Supporting documents not submitted online should be mailed to:

Office of Undergraduate Admissions  
The George Washington University  
800 21st Street NW, Suite 100  
Washington, DC 20052

Contact for questions:  
[gwadm@gwu.edu](mailto:gwadm@gwu.edu) or 202-994-6040

## REQUIREMENTS

Program Director: K. Crandall

The following requirements must be fulfilled: 18 credits, including 12 credits in required courses and 6 credits in elective courses.

Code	Title	Credits
<b>Required</b>		
PUBH 3201	Introduction to Bioinformatics	
PUBH 3202	Introduction to Genomics	
PUBH 4201	Practical Computing	
PUBH 4202	Bioinformatics Algorithms and Data Structures	
<b>Electives</b>		
6 credits in elective courses selected from the following:		
ANTH 2406	Human Evolutionary Genetics	
BISC 2207	Genetics	
BISC 3209	Molecular Biology	
BME 2820	Biomedical Engineering Programming I	
BME 2825	Biomedical Engineering Programming II	
BME 3820	Engineering Analysis of Neural, Muscular, and Cardiovascular Physiology	
CHEM 3165	Biochemistry I	
CHEM 3166	Biochemistry II	
CSCI 3212	Algorithms	

CSCI 3221	
CSCI 4364	Machine Learning
CSCI 4572	Computational Biology
EMSE 3760	Discrete Systems Simulation
EMSE 3850	Quantitative Models in Systems Engineering
EMSE 4765	Data Analysis for Engineers and Scientists
MATH 3359	Introduction to Mathematical Modeling
MATH 3553	Introduction to Numerical Analysis
MATH 3613	Introduction to Combinatorics
MATH 3730	Computability Theory
MATH 3740	Computational Complexity
PUBH 3131	Epidemiology
PUBH 3151	Current Issues in Bioethics
or PUBH 3151W	Current Issues in Bioethics
PUBH 4199	Independent Study
PUBH 6859	High Performance and Cloud Computing
PUBH 8885	Computational Biology
STAT 2183W	Intermediate Statistical Laboratory: Statistical Computing Packages
STAT 3119	Design and Analysis of Experiments
STAT 3187	Introduction to Sampling
STAT 4157	Introduction to Mathematical Statistics I
STAT 4188	Nonparametric Statistics Inference
STAT 4189	Mathematical Probability and Applications I