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 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
Required		
PUBH 3201	Introduction to Bioinformatics	
PUBH 3202	Introduction to Genomics	
PUBH 4201	Practical Computing	
or CSCI 1012	Introduction to Programming with Python	
or CSCI 1121	Introduction to C Programming	
or CSCI 1131	Introduction to Programming with C	
PUBH 4202	Bioinformatics Algorithms and Data Structures	
or CSCI 1112	Algorithms and Data Structures	
Electives		
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 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 3157	Introduction to Mathematical Statistics I	
STAT 3187	Introduction to Sampling	
STAT 4188	Nonparametric Statistics Inference	
STAT 4189	Mathematical Probability and Applications I	