

Certificate

Bioinformatics

This program develops your skills to master bioinformatics by analyzing biological data, utilizing computational tools, and applying AI methodologies to real-world datasets, preparing you for success in the expanding biotech and pharmaceutical industries. The Bioinformatics program consists of one core course, three required courses and one elective course.

Total Units: 15

Completion Time: 9-12 months (full-time)

Modality: Online with live-online and self-paced formats.

Special Programs: Not currently approved for F-1 Compliance or WIOA/TAA Funding.



*Courses may have prerequisites; review the course page before enrolling. A checkmark indicates the course is typically offered during that term.**

Core Courses

3 Units | Choose 1 Course

COURSE NAME & NUMBER	UNITS	FALL	WINTER	SPRING	SUMMER
Experimental Methods in Molecular Biology BINF.X401	3.0		✓		✓
Statistics BUSM.X406	3.0	✓		✓	

Required Courses

9 Units | 3 Courses

COURSE NAME & NUMBER	UNITS	FALL	WINTER	SPRING	SUMMER
Bioinformatics Tools, Databases and Methods BINF.X400	3.0	✓		✓	
Data and Workflow Management for Bioinformatics BINF.X410	3.0		✓		✓
Machine Learning and AI in Bioinformatics BINF.X411	3.0	✓		✓	

Elective Courses

3 Units | Choose 1 Course

COURSE NAME & NUMBER	UNITS	FALL	WINTER	SPRING	SUMMER
Next-Gen Sequence Analysis Tools –a Hands-On Approach BINF.X405	3.0		✓		✓
Principles of Drug Discovery BINF.X412	3.0		✓		✓
Relational Database Design and SQL Programming DBDA.X415	3.0	✓	✓	✓	✓
DevOps Technologies SEQA.X408	3.0	✓		✓	

Completion Review

Once all certificate requirements have been met and your final grades are posted, please access your Student Portal to enroll in the “[Certificate Completion Fee](#)” to begin the review process. Please allow 4-6 weeks to receive your certificate.

Note: A foundational knowledge of molecular biology, statistics, programming, and basic familiarity with genomics and generation DNA sequencing is required to begin the Bioinformatics certificate.