

Certificate

Biotechnology

This program builds your expertise in biotechnology, biopharmaceuticals, and bioscience research, focusing on drug discovery, molecular biology, and DNA sequencing, while preparing you for advanced roles or graduate-level training in the life sciences. The Biotechnology program consists of one prerequisite course, three core courses, and four elective courses.

Total Units: 19 (not including prerequisite course)
Completion Time: 12 months (full-time)
Modality: Online with live-online and self-paced formats.
Special Programs: WIOA/TAA Funding Approved.



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

Prerequisite Course

3 Units | 1 Course

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

Core Courses

10 Units | 3 Courses

COURSE NAME & NUMBER	UNITS	FALL	WINTER	SPRING	SUMMER
Principles of Drug Discovery and Development CTDM.X417	4.0		✓		✓
Biochemistry: An Introduction BTEC.X400	3.0	✓		✓	
Immunology, Principles BTEC.X409	3.0		✓		✓

Elective Courses

9 Units | Choose 4 Courses

COURSE NAME & NUMBER	UNITS	FALL	WINTER	SPRING	SUMMER
Human Physiology in Health and Disease BTEC.X408	3.0	✓		✓	
Genomics and Next Generation DNA Sequencing: Methods and Applications BINF.X408	3.0		✓		✓
Gene Therapy: Hacking the Genome BINF.X409	1.5		✓		✓
Biology of Cancer BTEC.X402	2.0	✓		✓	
Viruses, Vaccines and Antiviral Therapy BTEC.X413	2.0	✓		✓	

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: Familiarity with the principles of modern molecular biology is required.