

# BIOTECHNOLOGY

**Program code:** BIOT-AS

**Location:** Capital, Middlesex

## Degree Requirements

Code	Title	Credits
<b>General Education Courses</b>		
ENG 1010	Composition	3
MATH 1200	Statistics I	3
Elective ARHX - Arts & Humanities Course		3-4
CHEM 1210	General Chemistry I	4
Elective SBSX - Social / Behavioral Science Course		3
COMM 1301	Public Speaking	3
CCS 1001	College and Career Success	3
<b>Program Courses</b>		
Choose one of the following:		3-4
MATH 1012	Trigonometry with Embedded Algebra	
MATH 1600	College Algebra (Recommended)	
CHEM 1220	General Chemistry II	4
BIO 1210	General Biology I	4
BIO 1220	General Biology II	4
BIO 1810	Basic Techniques in Biotechnology	4
or BIO 2822	Molecular Biotechniques	
BIO 2350	Microbiology	4
ENG 1020	Composition II and Literature	3
or ENG 1080	Composition II: Technical Writing	
Choose one of the following: <sup>1</sup>		3-4
BIO 1809	Principles of Biotechnology	
BIO 2095	Biotechnology Internship	
Advanced Elective from list below		
<b>Advanced Science Electives</b>		
Choose two of the following:		8
BIO 2020	Biochemistry	
or CHEM 2410	Biochemistry	
BIO 2830	Advanced Techniques in Biotechnology	
BIO 2630	Molecular Genetics	
BIO 2840	Fundamentals of Biomanufacturing	
BIO 2865	Principles of Synthetic Biology	
CHEM 1120	Principles of Organic Chemistry and Biochemistry	
CHEM 2310	Organic Chemistry I	
CHEM 2320	Organic Chemistry II	
CHEM 2510	Instrumental Analysis	
<b>Total Credits</b>		<b>59-62</b>

<sup>1</sup> Students currently employed in the Biotechnology field may prefer to select an Advanced Science Elective.

**Total Credits: 60-62**