



# NIAGARA COUNTY COMMUNITY COLLEGE

## Biotechnology, A.S.

### Overview

Students in Biotechnology will gain a basic foundation of knowledge in the biological sciences including biology, cell/molecular biology, microbiology, bioinformatics and biotechnology. Students will learn methods in microbiological sciences, cell/molecular methods and electrophoresis, etc. They will be competent in the use of and handling of equipment for research purposes.

*Designed for transfer into a 4-year institution.*

### Careers

Careers related to your program of study:

- Biotechnology Research Technician
- Biotechnology Industry Lab Technician
- Biofuel Technician
- Cell Culture Technician
- Environmental Health & Safety Technician
- Genomics Technician
- Media & Solutions Preparations
- Quality Assurance Specialist

*Some careers may require more specialized education.*

### Contact

#### Program Coordinator

Dr. Estelle Steiner

716-614-6413

[brade@niagaracc.suny.edu](mailto:brade@niagaracc.suny.edu)

#### Division

Science, Health and Mathematics

716-614-6418

*Visit full catalog for specific course offerings for each semester:*

[www.niagaracc.suny.edu/programs/biotech](http://www.niagaracc.suny.edu/programs/biotech)

### Program Requirements

<b>First Semester</b>	<b>Credits</b>
BIO 109 - General Biology I	4
BIO 109L - General Biology I Lab	0
CHE 120 - General Chemistry I	4
CHE 111L - General Chemistry I Lab	1
ENG 101 - Writing I	3
MAT 116 - Pre-calculus Mathematics OR	4
MAT 164 - Introduction to Statistics	3
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<b>Total Credit Hours:</b>	<b>15/16 Cr.</b>

<b>Second Semester</b>	
BIO 103 - Bioinformatics Introduction	2
BIO 110 - General Biology II	4
BIO 110L - General Biology II Lab	0
CHE 121 - General Chemistry II	4
CHE 113L - General Chemistry II Lab	1
ENG 102 - Writing II & Introduction to Literature	3
MAT 120 - Calculus and Analytic Geometry I OR	
MAT 125 - Applied Calculus I	4
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<b>Total Credit Hours:</b>	<b>18 Cr.</b>

<b>Third Semester</b>	
BIO 104 - Bioinformatics Applications	1
BIO 203 - Biotechnology I	4
BIO 203L - Biotechnology I Lab	0
BIO 221 - Microbiology	4
BIO 221L - Microbiology Lab	0
HED 201 - Healthful Living OR	3
HED 214 - Advanced First Aid and CPR	2
PHI 153 - Ethics: Morality, Law and Politics	3
____ - Liberal Arts/General Education Elective (AR)	3
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<b>Total Credit Hours:</b>	<b>17/18 Cr.</b>

<b>Fourth Semester</b>	
BIO 204 - Biotechnology II	4
BIO 204L - Biotechnology II Lab	0
BIO 250 - Cell Biology	4
BIO 250L - Cell Biology Lab	0
____ - Liberal Arts/General Education Elective	3
____ - Liberal Arts/General Education Elective	3
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<b>Total Credit Hours:</b>	<b>14 Cr.</b>

*The information provided is subject to change throughout the academic year.*