



# SUNY Niagara

## Biology, A.S.

### Overview

Biology, meaning “the study of life”, can generate just as many questions as answers. Through coursework, SUNY Niagara will provide many foundational answers as well as produce graduates who will go on to think globally and answer bigger questions. Our program offers courses in general biology, chemistry, and math to prepare graduates for advanced study of the natural world.

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

### Tracks

1. Biology (BA)
2. Biochemistry/Cell, Molecular Biology
3. Ecology/Conservation/Environmental Biology
4. Organismal Biology/Physiology
5. Health Sciences

### Careers

Careers related to your program of study:

- Animal / Conservation Scientist
- Biochemist
- Dentist
- Doctor
- Environmental / Forensic Scientist
- Lab Technician

*Most careers will require education at the bachelor’s degree or higher level.*

### Contact

#### Program Coordinator

Carolyn Stanko / 716-614-6423

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

#### Division

Business & STEM

716-614-6410

*Link to the full college catalog for additional tracks in the Biology program:*

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

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

### Program Requirements (Biology, BA track)

#### First Semester

	<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	4

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**Total Credit Hours:** **16 Cr.**

#### Second Semester

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
MAT 120 - Calculus and Analytic Geometry I	4
ENG 102 - Writing II & Introduction to Literature OR	3
ENG 103 - Writing for STEM OR	3
___ ___ - HED/PED Elective	3

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**Total Credit Hours:** **16 Cr.**

#### Third Semester

CHE 234 - Organic Chemistry I	4
CHE 235L - Organic Chemistry I Lab	1
MAT 164 - Introduction to Statistics	3
CIS 115 - Introduction to Spreadsheets	1
___ ___ - General Education Electives by advisement from two of the following areas: ARTS, USCV, GLBL, WLNG, HUMN, or SOCS	6

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**Total Credit Hours:** **15 Cr.**

#### Fourth Semester

BIO 255 - Population Genetics	4
BIO 255L - Population Genetics Lab OR	0
BIO 213 – Human Anatomy & Physiology I	4
BIO 213L - Human Anatomy & Physiology I Lab OR	0
BIO 221 – Microbiology	4
BIO 221 L – Microbiology Lab	0
___ ___ - Basic Communication (COMO) General Education Elective	3
CHE 236 - Organic Chemistry II	4
CHE 237L - Organic Chemistry II Lab OR	1
PHY 171 – Calculus-Based Physics and Mechanics	4
PHY 171L - Calculus-Based Physics and Mechanics Lab AND 1	0
Credit Free Elective OR	0
PHY 131 - General Physics I	4
PHY 131L - General Physics I Lab AND 1 Credit Free Elective	0
___ ___ - General Education Elective selected by advisement that meets one of the 4 remaining General Education areas AND DVRS	3

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**Total Credit Hours:** **15 Cr.**