

Transfer Planning Sheet (Tompkins Cortland Community College) Biochemistry (BCH), B.S.

The following SUNY Cortland courses are recommended by the department to complete prior to transfer. The transfer credit limit from a 2-year college is 64 credits[^]. All classes are three (3) credits unless otherwise noted. SUNY Transfer Path courses are underlined and notated in blue. Transfer students who have completed SUNY General Education prior to attending SUNY Cortland will have met their General Education requirements at SUNY Cortland.

SUNY General Education/Cortland Degree Requirements (30 credits)

- Communication 1 (GEC1)*
CPN 100 Writing Studies I
- Communication 2 (GEC2)*
CPN 101 Writing Studies II
- Communication – Presentation (GECP)*
- Diversity: Equity, Inclusion & Social Justice (GEDI)*
- Humanities (GEHU)
- Social Sciences (GESS)
- The Arts (GEAR)
- US History & Civic Engagement (GEUS)
- World History & Global Awareness (GEWH)
- World Languages (GEWL)**

Courses I will complete at TC3:

ENGL 100

ENGL 101

***Indicates required SUNY General Education Category**

****A foreign language course at the beginning level I (101) is required for this major. Sign language is acceptable as a foreign language for this major.**

Major Requirements (36 credits):

It is recommended to complete full sequences and not to transfer only one class of a two-class sequence

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|--|------------------------|
| ○ CHE 227 and 277 General Chemistry I with lab (4 cr) | CHEM 107 |
| ○ CHE 228 and 278 General Chemistry II with lab (4 cr) | CHEM 108 |
| ○ CHE 300 Organic Chemistry and CHE 303 (4 cr) | CHEM 205 |
| ○ BIO 201 Biological Sciences I (4 cr) (will also fulfill GE Natural Sciences*) | BIOL 104 |
| ○ BIO 202 Biological Sciences II (4 cr) | BIOL 105 |
| ○ PHY 201 Principles of Physics I (4 cr) | PHSC 211 (Spring only) |
| ○ PHY 202 Principles of Physics II (4 cr) | PHSC 212 (Fall only) |
| ○ Calculus sequence (6-8 cr) (will also fulfill GE Mathematics*)
MAT 135 Calculus I (4 cr) AND MAT 236 Calculus II (4 cr) | MATH 201 AND 202 |

Total: 64

Biochemistry

School of Arts and Sciences

The program requirements pertain to the Undergraduate Catalog and are intended as a guide for academic planning. Students currently on SUNY campuses should consult their academic advisor for additional choices in general education categories when any course is recommended.

- To view all required courses for the program and Cortland's General Education courses, see the most current undergraduate [Catalog](#).
- Use the [transfer equivalency tables](#) to choose equivalents at your transfer college.
- If you plan to transfer before you complete your associate's degree, you can still earn your degree via [Reverse Transfer](#).

About Biochemistry

A major in biochemistry provides you with a strong foundation for post-graduate study and prepares you for careers in the health sciences, including medicine, dentistry, allied health and pharmacy. You also might consider a career in business, forensics or the biotechnology and pharmaceutical industries.

Career Potential

- Industrial chemist
- Health professional
- Research scientist
- Consultant
- Law enforcement officer
- Patent attorney
- State and federal agency scientist and policy maker

What Will I Learn?

- Your required courses will give you a solid foundation in biology and chemistry.
- You will study the chemistry of living things — the molecular compounds and substances that make biological organisms tick.
- As a biochemistry major you will study the minute, discrete characteristics of every organism and biological process.

Applying to Cortland

- SUNY Cortland accepts the Common Application and the SUNY Online [application](#). Choose just one way to apply; both require a \$50 non-refundable application fee.
- If you apply to Cortland using the SUNY application, SUNY will waive the \$50 application fee for transfer students graduating with an associate degree from a SUNY or CUNY college, who apply directly to Cortland for baccalaureate programs.
- Fall applicants should apply by March 1. Spring applications should apply by November 1.
- After [applying](#), students must send transcripts from all colleges attended and a high school transcript.