

## Transfer Planning Sheet (Tompkins Cortland Community College) Biology (BIO), 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 Broome CC:

ENGL 100

ENGL 101

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**\*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 (31 credits):

- \*BIO 201 Biological Sciences I (4 cr.) (will also fulfill GE Natural Sciences\*) BIOL 104
- \*BIO 202 Biological Sciences II (4 cr.) BIOL 105
- BIO 210 Cellular Biology (4 cr.) BIOL 220 (Offered occasionally) AND 221
- \*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 I and 303 (lab) (4 cr.) CHEM 205
- MAT 135 Calculus I (4 cr.) (will also fulfill GE Mathematics\*) MATH 201
- MAT 201 Statistics MATH 200

**\* Courses must be completed in order to transfer at full junior status and progress into upper division biology courses.**

### Electives (3-4 credits)

#### BIO Elective Options

- BIO 412 General Ecology BIOL 211

- Students who are not prepared for calculus should take pre-calculus as an elective.
- Students are encouraged to avoid taking 100-level biology courses other than introductory biology, and to avoid taking human anatomy and physiology courses, as well as other biology courses designed for non-majors.

Total: 64

## Biology

### 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 Biology

As a biology major, you'll benefit from a strong, comprehensive foundation in the central areas of biology and related sciences. You also can choose from specialized study as you prepare for a variety of biology-related employment opportunities or for entry into graduate or professional schools.

### Career Potential

- Biotechnology and pharmaceutical scientist
- Environmental policy analyst
- Forester and land manager
- Health care professional (nurse, physician, physical therapist)
- Water ecologist

### Special Features

- Well-equipped on-campus facilities including a greenhouses, a molecular biology laboratory, tissue culture laboratories and a scanning electron microscope
- Outstanding field facilities at Hoxie Gorge 7 miles from campus and the W.H. Parks Family Outdoor Center in the heart of the Adirondacks
- Cooperative programs with SUNY Upstate Medical University, Duke University and the New York Chiropractic College
- Research opportunities with faculty

### 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.