

## Transfer Planning Sheet (Tompkins Cortland Community College) Physics (PHY), 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

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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 NOT acceptable as a foreign language for this major.**

### Major Requirements (31 credits):

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|---|---------------------------------|
| ○ <a href="#">PHY 201 Principles of Physics I</a> (4 cr) (will also fulfill GE Natural Sciences*) | PHSC 211 (spring only)          |
| ○ <a href="#">PHY 202 Principles of Physics II</a> (4 cr)   | PHSC 212                        |
| ○ <a href="#">MAT 135 Calculus I</a> (4 cr) (will also fulfill GE Mathematics*)                   | MATH 201                        |
| ○ <a href="#">MAT 236 Calculus II</a> (4 cr)  | MATH 202                        |
| ○ <a href="#">MAT 237 Calculus III</a> (4 cr)   | MATH 203                        |
| ○ <a href="#">MAT 272 Linear Algebra</a>  | MATH 208 (offered occasionally) |
| ○ <a href="#">MAT 336 Differential Equations</a>  | MATH 206 (spring only)          |
| ○ 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                        |

Total: 64

# Physics

## 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 Physics

Engage in the "fundamental science" by exploring matter, energy and the rules that govern them that are vital to scientific understanding in everyday life. Learn from distinguished faculty who will expose you to all the major branches of physics, from classical physics and quantum mechanics, to the study of the tiniest subatomic particles and the exploration of entire galaxies.

## Career Potential

- Industrial or governmental research
- Scientific advisor
- Technical specialist
- Environmental science policy analyst
- Academia and graduate school

## What Will I Learn?

- Gain a strong background in applied mathematics
- Learn advanced computer skills
- Conduct extensive research and become engaged in the sciences
- Work with sophisticated science instrumentation to enhance your educational experience

## 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.