

## Transfer Planning Sheet (SUNY Broome) Mathematics (MAT)

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 (33 credits)

Course I will complete at my current college:

- |   |         |
|---|---------|
| o Communication 1 (GEC1)*<br>CPN 100 Writing Studies I                            | ENG 110 |
| o Communication 2 (GEC2)*<br>CPN 101 Writing Studies II                           | ENG 111 |
| o Communication – Presentation (GEC2)*<br>COM 201 Fundamentals of Public Speaking | SPK 110 |
| o Diversity: Equity, Inclusion & Social Justice (GEDI)*                           | _____   |
| o Natural Sciences (GENS)* (3-4 cr)   | _____   |
| o Humanities (GEHU)   | _____   |
| o Social Sciences (GESS)  | _____   |
| o The Arts (GEAR)   | _____   |
| o US History & Civic Engagement (GEUS)  | _____   |
| o World History & Global Awareness (GEWH)   | _____   |
| o World Languages (GEWL)**  | _____   |

\*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 (18 credits):

- |   |                                    |
|---|------------------------------------|
| o <u>MAT 135 Calculus I</u> (4 cr) (will also fulfill GE Mathematics*)  | MAT 181                            |
| o <u>MAT 236 Calculus II</u> (4 cr)                                     | MAT 182                            |
| o <u>MAT 237 Calculus III</u> (4 cr)                                    | MAT 281                            |
| o <u>MAT 272 Linear Algebra</u> <u>ORMAT 336 Differential Equations</u> | MAT 264 OR MAT 282                 |
| o MCS 186 Introductory Programming                                      | Pick One: CST 113/127/133/138/150W |

Students are encouraged to avoid transferring introductory statistics (MAT 201), as it will not transfer to meet a degree requirement or count towards major credits.

**Students have the option of pursuing a Bachelor of Arts (BA) or Bachelor of Science (BS) in Mathematics. The BA requires additional foreign language; the BS requires completion of two physical science courses.**

**BA Students (12-13 credits):**

Continue foreign language sequence through Intermediate level II (9 cr) AND \_\_\_\_\_  
any GE Natural Sciences\* course (3-4 cr) \_\_\_\_\_

**BS Students (7-8 credits):** Choose any two physical science courses (will also fulfill GE Natural Sciences\*) from the following list: CHE 227 and 277 General Chemistry I with lab (4 cr), CHE 228 and 278 General Chemistry II with lab (4 cr), GLY 261 Physical Geology (4 cr) GLY 262 Historical Geology (4 cr), PHY 201 Principles of Physics I (4 cr), PHY 202 Principles of Physics II (4 cr), PHY 150 Astronomy  
\_\_\_\_\_  
\_\_\_\_\_

Electives (0-6 credits)

Total: 64

# Mathematics

## 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 Mathematics

Mathematicians think critically, reason logically and solve problems. These are skills that many employers find highly desirable, but it is not all about jobs and money. Mathematics is a natural human activity practiced by many cultures for thousands of years. Our primary aim is to give you a solid foundation in mathematics that will help you appreciate its power, beauty and usefulness.

## Career Potential

- Actuary
- Cryptologist
- Computer analyst
- Statistician

## What Will I Learn?

The required math courses are designed to give you a solid foundation. There is plenty of room in the program for elective math and non-math courses that interest you. That being said, picking up at least one minor in a math-related field is strongly encouraged. If you choose to pursue the B.S., you also will be taking classes in applied sciences.

## 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.