Transfer Planning Sheet – Chemistry leading to 3+2 Engineering Program (CEN)
The following Cortland courses are recommended by the department to complete prior to transfer. The transfer credit limit from a 2-year college is 64 credits.

This program is designed for those students wishing to go on in an engineering discipline. Students would typically start at Cortland, attend for three years taking all the requirements for the degree in chemistry, then transfer to an engineering school for two years to complete the requirements for a degree in engineering. **Students interested in this program who transfer after two years at another college may spend additional time at Cortland to meet requirements.**

- To view all required courses for the program and Cortland’s General Education courses, see the most current undergraduate [Catalog](#).
- Students currently on SUNY campuses should consult their academic advisor for additional choices in general education categories when any course is recommended.
- Use the [transfer equivalency tables](#) to choose equivalents at your transfer college.

**SUNY General Education/Cortland Degree Requirements (21 cr):**

1. GE 4 U.S. History & Society: HIS 200 The United States to 1877, **OR** HIS 201 The United States since 1877 (3 cr) _______________________
2. Any GE 6 Contrasting Cultures/Other World Civilization course (3 cr) _______________________
3. Any GE 7 Humanities course (3 cr) _______________________
4. Any GE 8 The Arts course (3 cr) _______________________
5. A foreign language course at the beginning level I (101). Sign language is **NOT** acceptable as a foreign language for this major. (3 cr) _______________________
6. CPN 100 Writing Studies I (3 cr) _______________________
7. CPN 101 Writing Studies II (3 cr) _______________________

**Major Requirements (36 cr):**

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

1. CHE 221 General Chemistry I (4 cr) (will also fulfill GE 2 Natural Science) _______________________
2. CHE 222 General Chemistry II (4 cr) _______________________
3. CHE 301 Organic Chemistry I (4 cr) _______________________
4. CHE 302 Organic Chemistry II (3 cr) **AND** CHE 304 Organic Chemistry II lab (1 cr) _______________________
5. PHY 201 Principles of Physics I (4 cr) _______________________
6. PHY 202 Principles of Physics II (4 cr) _______________________
7. MAT 135 Calculus I (4 cr) (will also fulfill GE 1 Quantitative Skills) _______________________
8. MAT 236 Calculus II (4 cr) _______________________
9. MAT 237 Calculus III (4 cr) _______________________

**Elective (7 cr)**

Total: 64