

Transfer Planning Sheet (SUNY Broome) Adolescence Education: Chemistry (ACM), 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. However, additional major course recommendations are provided here that go beyond the 64-credit limit for students' reference. 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 (GEC2)*
- Diversity: Equity, Inclusion & Social Justice (GEDI)*
- Humanities (GEHU)
- The Arts (GEAR)
- US History & Civic Engagement (GEUS)
- World History & Global Awareness (GEWH)
- World Languages (GEWL)**

Courses I will complete at Broome CC:

ENG 110

ENG 111

***Indicates required SUNY General Education Category**

****A foreign language course at the beginning level II (102) is required for this major. Sign language is acceptable as a foreign language for this major.**

Major Requirements (37-39 credits):

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

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| ○ CHE 227 and 277 General Chemistry I with lab (4 cr.) | CHM 145/145L |
| ○ CHE 228 and 278 General Chemistry II with lab (4 cr.) | CHM 146/146L |
| ○ CHE 300 Organic Chemistry I and CHE 303 (lab) (4 cr.) | CHM 245/245L |
| ○ PHY 201 Principles of Physics I (4 cr.) (will also fulfill GE Natural Sciences*) | PHY 181 |
| ○ PHY 202 Principles of Physics II (4 cr.) | PHY 182 |
| ○ Calculus sequence (6-8 cr.) (will also fulfill GE Mathematics*) choose:
MAT 121 Calculus A AND MAT 122 Calculus B OR
MAT 135 Calculus I (4 cr.) AND MAT 236 Calculus II (4 cr.) | MAT 146/160 (no MAT 122 option)
MAT 181 AND 182 |
| ○ Biology or Geology Sequence (8 cr.) choose one sequence:
BIO 201 AND BIO 202 Biological Sciences I and II (4 cr. each)

OR GLY 261 Physical Geology (4 cr.) AND Historical Geology (4 cr.) | BIO 118 AND 117

GLG 115 AND GLG 125 (may not be offered) |
| ○ PSY 101 Introductory Psychology (will also fulfill GE Social Sciences) | PSY 110 |

Total: 67-69 credits

***Note: Students should not exceed 64 credits (see note at top of page).**

Adolescence Education: Chemistry

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 Adolescence Education: Chemistry

Bring the excitement of chemistry to pupils in grades 7-12. With a first-rate curriculum background and solid classroom teaching techniques, you'll be well prepared to engage these adolescent learners.

Career Potential

- Chemistry teacher (grades 7-12)

What Will I Learn?

As a chemistry education major, you will receive a thorough grounding in the science from its conceptual bases to the most advanced techniques. You will strengthen your understanding of

- Inorganic and organic chemistry
- Physical chemistry
- Biochemistry
- Quantitative analysis

To prepare you for the classroom environment, your course work will emphasize

- Effective teaching techniques
- Innovative lesson planning
- Motivational strategies
- Student assessment

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.

Cortland's Urban Recruitment of Educators (C.U.R.E.) Program (Fall Applicants Only)

- SUNY Cortland's C.U.R.E. program provides scholarship support, mentoring and programming to eligible students interested in working in urban education after graduation.
- Students from demographic groups that are underrepresented in teaching or students who have a serious interest in urban education are eligible to apply.
- Admission in the C.U.R.E. program is open to Fall applicants only. [Applications](#) can be submitted online.