

## SUNY Broome

### Transfer Planning Sheet – Adolescence Education: Earth Science (AES)

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. All classes are three (3) credits unless otherwise noted. [SUNY Transfer Path](#) courses are underlined and notated in blue.

#### SUNY General Education/Cortland Degree Requirements (24 credits):

1. GE 4 U.S. History & Society: HIS 200 The United States to 1877, **OR**  
HIS 201 The United States since 1877
2. Any GE 6 Contrasting Cultures/Other World Civilization
3. Any GE 7 Humanities
4. Any GE 8 The Arts
5. Any GE 9 Foreign Language\*\*
6. CPN 100 Writing Studies I
7. CPN 101 Writing Studies II

#### Course I will complete at my current college:

HIS 130 OR 131

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ENG 110

ENG 111

#### Major Requirements (37 credits):

1. GLY 261 Physical Geology (4 cr) (will also fulfill GE 2 Natural Science) GLG 115
2. GLY 262 Historical Geology (4 cr) GLG 125
3. CHE 227 and 277 General Chemistry I with lab (4 cr) CHM 145 AND 145L
4. CHE 228 and 278 General Chemistry II with lab (4 cr) CHM 146 AND 146L
5. MAT 121 Calculus A **OR** MAT 201 Statistical Methods  
(will also fulfill GE 1 Quantitative Skills) MAT 146/160 OR MAT 124
6. **Biology or Physics Sequence (8 cr)** choose one sequence:  
BIO 201 Biological Sciences I (4 cr) **AND**  
BIO 202 Biological Sciences II (4 cr)  
**OR**  
PHY 105 Elementary Mechanics and Heat (4 cr) **AND**  
PHY 106 Elementary Electricity, Light and Sound (4 cr) PHY 161 AND 162
7. PHY 155 Astronomy with Lab (4 cr) PHS 113
8. PSY 101 Introductory Psychology PSY 110
9. PSY 232 Adolescent Psychology PSY 212

#### Electives (3 credits)

Total: 64

\*\*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.

## Adolescent Education: Earth Science

### 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 Adolescent Education: Earth Science

You'll want a strong foundation in the space and geosciences if your ambition is to teach Earth science in a middle or high school. Your SUNY Cortland program includes course work in all areas of Earth science needed for New York state certification together with supporting courses for the General Science extension. Add quality professional teacher education preparation, and you'll be on track for a rewarding career in the public or private schools.

### Career Potential

- Earth science teacher (grades 7-12)
- Naturalist or interpreter
- Earth scientist

### What Will I Learn?

- Study the space, atmospheric, geological and water systems of Earth
- Learn classroom skills for effective teaching
- Develop writing and presentation skills for professional development
- Take course work in related math and sciences
- Fieldwork and hands-on learning infused throughout the program

### 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.