

Transfer Planning Sheet (Tompkins Cortland Community College) Geographic Information Systems (GIS), 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. 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 (30-31 credits)

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| <ul style="list-style-type: none"> ○ 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)* ○ Mathematics (GEMA)* ○ Natural Sciences (GENS)* (3-4 cr) ○ Humanities (GEHU) ○ The Arts (GEAR) ○ US History & Civic Engagement (GEUS) ○ World Languages (GEWL)** ○ World History & Global Awareness (Consider taking GRY 120 – Cultural Geography at SUNY Cortland) | <p><u>Courses I will complete at TC3:</u></p> <p>ENGL 100</p> <p>ENGL 101</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> |
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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 an acceptable language for this major.**

Major Requirements (15 credits):

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| <ul style="list-style-type: none"> ○ CAP 100 Introduction to Computer Applications ○ GRY 125 Human Geography and Global Development
(will also fulfill GE Social Sciences) ○ GRY 324 Introduction to Cartography and Geographic Information Systems | <p>Must do all 3 – CAPS 111, 121, 131
GEOG 120</p> <p>GIS 110</p> |
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Electives (18-19 credits)

GIS Computer Techniques Concentration Options

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| <ul style="list-style-type: none"> ○ CAP 201 C Programming OR MCS 186 Introductory Programming | <p>CIS 213 OR CSCI 160 OR 165</p> |
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GIS Demographics and Business Geographics Concentration Options

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| <ul style="list-style-type: none"> ○ MAT 201 Statistical Methods ○ MGT 253 Principles of Marketing | <p>MATH 200
BUAD 204</p> |
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GIS Environmental Science Concentration Options

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| <ul style="list-style-type: none"> ○ EST 100 Introduction to Environmental Studies | <p>ENVS 102</p> |
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Choose two of the following:

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| <ul style="list-style-type: none"> ○ GLY 261 Physical Geology ○ GLY 371 Meteorology ○ BIO 307 Field Natural History ○ BIO 412 General Ecology | <p>GEOL 101
METR 101 (offered occasionally)
BIOL 115
BIOL 211</p> |
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Total: 64

Geographic Information Systems

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.

- **Students must add a concentration to this program.** You can choose from Advanced Geospatial Applications, Computer Techniques, Demographics and Business Demographics, or Environmental Science.
- 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 Geographic Information Systems

Prepare to strategically solve real-world problems and come up with cutting-edge solutions through a combination of technology and business skills. You'll learn the nature of geographic data while recognizing the appropriate applications of GIS technology to solve spatial issues.

Career Potential

- Environmental GIS specialist
- Land use planner
- Marketing and business geographics consultant
- Law enforcement analyst
- Transportation planner
- Emergency response planner

What Will I Learn?

You will receive computer training in

- digital processing of remote sensing observations and cartographic vector data.
- spatial analysis.
- the display of information products in ENVY and GIS software.

The curriculum will provide you with the necessary background to use remote sensing in various fields such as

- military analysis and intelligence.
- environmental monitoring.
- counter-narcotics.
- disaster assessments.
- law enforcement and other related fields.

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.