



Geography A.S.

Career Community: Science and Mathematics

Curriculum Code: 1824

Effective: Fall 2022 – Summer 2027

Revised: 6/28/22

Purpose of Major

This degree is designed for students who plan to transfer to a four-year university to pursue a Bachelor's of Science degree in Geography with a variety of concentrations. Students completing this degree will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482). This degree includes a set of courses common to all Science and Mathematics majors and many transfer institutions. Students are encouraged to work with an academic advisor and program advisor to explore transfer opportunities.

Not all courses in this pathway transfer to all colleges. Students who wish to transfer to a four-year institution should select coursework indicated for that institution.

Milestone

In addition to the required General Education courses in Math and English, completion of GEOG 120 and GEOG 200 with a 2.0 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Contact the Science Department, Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

General Education – Transfer Degrees (MTA) - Recommended Courses

Select courses as indicated for specific transfer institutions and majors. These courses are preferred General Education courses listed on Transfer Articulation agreements. The recommended courses in each General Education category also meet Michigan Transfer Agreement (MTA) requirements. If no course is indicated, choose from the list of options under [General Education](#).

- English Composition
ENGL 121 or ENGL 131 meets this requirement.

- English Composition (second course)/Communications
COMM 130, ENGL 122, or ENGL 132 meets this requirement.
- Humanities and Fine Arts
Program of Study Required Courses meets this requirement.
- Mathematics
MATH 120, MATH 126, or MATH 151 will meet this requirement.
- Natural Sciences
CHEM 151/ 161 and BIOL 120, BIOL 127, GEOL 221, GEOL 230, or PHYS 251 meets this requirement.
- Social Sciences
GEOG 120/200, and ANTH 270, ECON 120, ECON 201, EDUC 204, EDUC 220, POLS 120, POLS 240, POLS 260, PSYC 200, or SOCL 120 will meet this requirement.

Science and Math Career Community Courses – *These courses are required for all Science and Math programs. They should be taken before other Program Required or Limited Choice Courses. Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First Year College Experience	1 / 1
ANTH 270 or ECON 120 or ECON 201 or EDUC 204 or EDUC 220 or GEOG 120 or GEOG 200 or POLS 120 or POLS 240 or POLS 260 or PSYC 200 or SOCL 120	Cultural Anthropology Power, Authority, and Exchange Principles of Economics-Micro Educational Psychology Introduction to Education Introduction to Geography World Regional Geography American Political System Introduction to Public Policy Comparative Political Systems Introduction to Psychology Introduction to Sociology	3 / 3 4 / 4 4 / 4 3 / 3 3 / 3 3 / 3 4 / 4 4 / 4 4 / 4 3 / 3 3 / 3 4 / 4 4 / 4
BIOL 120 or BIOL 127 or GEOL 221 or GEOL 230 or PHYS 251	Environmental Science Cell Biology Physical Geology Environmental Geology Physics I with Calculus	4 / 6 4 / 6 4 / 6 4 / 6 5 / 7
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 161	General Chemistry Lab I	1 / 3

Course Code	Course Title	Credit / Billing Hours
COMM 130 or ENGL 122 or ENGL 132	Fundamentals Public Speaking Composition II Honors Composition II	3 / 3 4 / 4 4 / 4
ENGL 121 or ENGL 131	Composition I Honors Composition I	4 / 4 4 / 4
MATH 120 or MATH 126 or MATH 151	College Algebra Precalculus Calculus I	4 / 4 5 / 5 4 / 4

Notes:

ACAD 100 may be waived based on the recommendation of a Program Advisor.

Select a course other than GEOG 120 or GEOG 200 to meet the second course General Education Social Sciences requirement.

For future transfer (all majors) to:

- Central Michigan University, Ferris State University, Grand Valley State University and Michigan State University choose COMM 130 and GEOL 230.
- Eastern Michigan University, University of Michigan Flint, and Western Michigan University choose ENGL 122 and GEOL 230.

Students considering adding Secondary Education Certification in Math or Science in order to teach in Michigan Public Schools are strongly encouraged to select EDUC courses as listed to meet the Michigan Transfer Agreement (MTA) Social Science requirement.

For future transfer (Secondary Education Certification) to:

- Central Michigan University, Ferris State University, or Michigan State University choose EDUC 204.
- Eastern Michigan University, Grand Valley State University, University of Michigan Flint, or Western Michigan University choose EDUC 220.

Program of Study Required Courses - *Some courses meet General Education requirements for Michigan Transfer Agreement (MTA). A minimum of 2.0 is required to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course.)*

Course Code	Course Title	Credit / Billing Hours
GEOG 120	Introduction to Geography	3 / 3
GEOG 200	World Regional Geography	4 / 4
GEOG 221	Physical Geography	4 / 4
GSCI 100	Intro to Geospatial Tech	3 / 3
GSCI 110	Beginning ArcGIS	3 / 5

Program of Study Required Courses, Limited Choice – Humanities - *Select two from two different disciplines.*

Course Code	Course Title	Credit / Billing Hours
ENGL 211	World Literature I	4 / 4
HIST 211	U.S. History to 1877	4 / 4
HIST 212	U.S. History: 1877 to Present	4 / 4
HUMS 213	World Civilizations to 1600	4 / 4
HUMS 214	World Civilizations from 1600	4 / 4
LING 230	Introductory Linguistics	3 / 3
PHIL 151	Intro to Logic & Critical Think	4 / 4
RELG 150	Intro to World Religions	4 / 4

Program of Study Required Courses, Limited Choice – *Select a minimum of 7 credits to meet the 60-credit total credits required for this degree. For information on preferred courses for specific concentrations identified by transfer institutions, consult with a Program Advisor.*

Course Code	Course Title	Credit / Billing Hours
GEOG 202	Geography of North America	3 / 3
GEOG 220	Weather, Forecasting & Climate	4 / 4
GSCI 120	Advanced ArcGIS	3 / 5
GSCI 210	Global Positioning Systems	3 / 4
GSCI 240	Cartography in GIS	3 / 4
STAT 170	Introduction to Statistics	4 / 4

Minimum Total Credit Hours

60 credits / 64 billing hours

Recommended Course Sequence

Semester I
ACAD 100 (if waived substitute Career Community course)
CHEM 151
CHEM 161
ENGL 121 or ENGL 131
MATH 120 or MATH 126 or MATH 151

Semester II
COMM 130 or ENGL 122 or ENGL 132
ANTH 270, ECON 120, ECON 201, EDUC 204, EDUC 220, POLS 120, POLS 240, POLS 260, PSYC 200, or SOCL 120
Limited Choices – Humanities and Fine Arts
GSCI 110

Semester III
GEOG 120 – Milestone course
GEOG 200 – Milestone course
GSCI 100
Limited Choice

Semester IV
Limited Choices – Humanities and Fine Arts
BIOL 120 or BIOL 127 or GEOL 221 or GEOL 230 or PHYS 251
GEOG 221
Limited Choice

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.