

Geography Major: Geographic Information Science Concentration - Bachelor of Arts (BA)

Major requirements

(All colleges)

42 credits

Code	Title	Credits
GIS core		
GEO 101	Earth Environments	4
GEO 110	World Cultural Regions	3
GEO 200	Conservation of Global Environments	3
GEO 305	Geographic Information Systems and Science I	3
GEO 401	Focus on Geography: A Capstone Course	1
GEO 405	Geographic Information System and Science II	3
GEO 415	Remote Sensing of the Environment I	3
GEO 418	Map Design and Geovisualization	3
GEO 445	Remote Sensing of the Environment II	3
or GEO 455	Web Mapping	
GEO 485	Geographic Information System and Science III	3
STAT 145	Elementary Statistics	4
Earth's environmental systems		
Select one course from the following:		3-4
GEO 211	Global Climate Change ¹	
GEO 221	Weather and Climate ¹	
GEO 222	Earth Surface Processes and Landforms ¹	
GEO 422	Meteorology	
GEO 425	Biogeography	
GEO 428	Past Environmental Change	
GEO 430	River Systems	
GEO 460	Environmental Hazards	
Humans and the environment		
Select one course from the following:		3
GEO 202	Contemporary Global Issues ¹	
GEO 307	Power, Space, and Global Change	
GEO 309	Cities: Past, Present, and Future	
GEO 310	Transportation Equity and Sustainable Communities	
GEO 318	The Geography of Latin America and the Caribbean	
GEO 321	Sustainable Development and Conservation	
GEO 335	Islamic Asia: Cradle of Civilizations, Geographies of Conflict	
GEO 340	Polar Environments	
GEO 427	Sustainable Water Resource Management	
Additional electives		
Select three credits from the following:		3
GEO 102	Maps and Society ¹	

GEO 410	Geospatial Field Methods
GEO 412	Geospatial Applications of Unmanned Aerial Systems
GEO 445	Remote Sensing of the Environment II (if not taken for GIS Core)
GEO 450	Internship in Geography and Earth Science ^{2,3}
GEO 455	Web Mapping (if not taken for GIS Core)
GEO 465	Scripting in GIS
GEO 470	Special Topics in Geography/Earth Science ^{2,4}
GEO 490	Independent Study ^{2,5}
GEO 495	Seminar in Geography/Earth Science ^{2,6}
GEO 499	Undergraduate Research ^{2,7}
CS 120	Software Design I ¹

Total Credits **42**

¹ No more than two courses from GEO 102, GEO 202, GEO 211, GEO 221, GEO 222, and CS 120 can be applied to the major.

² GEO 450, GEO 470, GEO 490, GEO 495, and GEO 499 must be GIS related.

³ A maximum of three credits of GEO 450 may apply to the major.

⁴ A maximum of three credits of GEO 470 may apply to the major.

⁵ A maximum of three credits of GEO 490 may apply to the major.

⁶ A maximum of three credits of GEO 495 may apply to the major.

⁷ A maximum of three credits of GEO 499 may apply to the major.

Exit survey requirement

During the student's last semester of enrollment, completion of the Department of Geography and Environmental Science exit survey is required in order to graduate.

Degree requirements

All students must complete the general education, college core, major/minor, and university degree requirements in order to qualify for a degree. The easiest way to track all of these requirements is to refer to the Advisement Report (AR) found in the Student Information System (WINGS) Student Center. All enrolled students have access to the AR.

- General education (<http://catalog.uwlab.edu/undergraduate/generaleducation/>)
- College core (p. 1)
- Baccalaureate degree requirements (p. 2)

College of Science and Health (CSH) Bachelor of Arts core requirements

B.S. and B.A. students graduating from the College of Science and Health are required to take two natural laboratory science courses selected from the general education laboratory science category (GE 05) and/or from BIO 203, BIO 210, BIO 304, CHM 104, GEO 221, GEO 222, PHY 104 or PHY 204, and they either must take two mathematics courses or one math course and one computer science course from the math/logical systems category of the general education requirements (GE 02). One of the two science courses must be from a department outside of the student's major department.

Note: Math courses can be pairs, i.e. 150 and 151; MTH/CS majors can use two science courses from same department.

For the Bachelor of Arts degree, students must complete a major from the college and proficiency in a world language at the 202 level or

demonstrate English language proficiency for non-native speakers of English. Contact the CSH Dean's Office for eligibility and regulations.

Students must also complete one of the following options. It is recommended that courses are selected in consultation with your advisor.

1. Complete a minor in the College of Arts, Social Sciences, and Humanities/School of Visual and Performing Arts; or
2. Complete an individualized option, consisting of 15 credits.
 - a. These courses must be from the College of Arts, Social Sciences, and Humanities/School of Visual and Performing Art.
 - b. At least 9 credits must be earned at the 300/400 level.
 - c. General education courses may apply provided they are not being used to fulfill minimum general education requirements.
 - d. Internship credits may not count toward the individualized option.

Baccalaureate degree requirements

Candidates for the Bachelor of Arts or the Bachelor of Science degrees must accomplish the following:

1. Fulfill the general education requirements.
2. Complete at least one ethnic studies (diversity) course.
3. Complete the courses prescribed by the Undergraduate Curriculum Committee for the degree desired in the respective school or college.
4. Earn a minimum of 120 semester credits with at least a 2.00 cumulative GPA.^{1,2}
5. At least 40 credits must be earned in 300/400 level courses. Transfer courses earned or transferred at the 300/400 level apply to this requirement.
6. Complete major and minor requirements with at least a 2.00 GPA^{1,2} in each major and minor (and concentration or emphasis, if selected).
7. A minimum of 30 semester credits in residence at UWL is required for graduation. (See undergraduate resident requirement (<http://catalog.uwlax.edu/undergraduate/academicpolicies/graduation/#undergraduate-residence-requirement>)).
8. Submit an application for graduation via the "Apply for Graduation" link in the WINGS Student Center as soon as the student has registered for his or her final semester or summer term in residence. December and winter intersession graduates should apply by May 1. May and summer graduates should apply by December 1.

¹ Grade point average requirements for some programs will be considerably higher than 2.00. Re-entering students may be required to earn credits in excess of the 120 needed for graduation in any curriculum in order to replace credits earned in courses in which the content has changed substantially in recent years. Each case will be judged on its own merit.

² The grade point average recorded at the time the degree is awarded will not be affected by future enrollment.

No degree will be awarded unless all requirements are fulfilled and recorded within 30 days after the official ending date of each term.

Sample degree plan

Below is a sample degree plan that can be used as a guide to identify courses required to fulfill the major and other requirements needed for degree completion. A student's actual degree plan may differ depending on the course of study selected (second major, minor, etc.). Also, this sample plan assumes readiness for each course and/or major plan, and some courses may not be offered every term. Review the course descriptions or the class timetable (<http://www.uwlax.edu/Records/registration/>) for course offering information.

The sample degree plans represented in this catalog are intended for first-year students entering UWL in the fall term. Students should use the Advisement Report (AR) in WINGS (<https://wings.uwlax.edu>) and work closely with their faculty advisor(s) and college dean's office to ensure declaration and completion of all requirements in a timely manner.

General Education Program

The general education curriculum (Gen Ed) is the common educational experience for all undergraduates at UWL. Sample degree plans include Gen Ed placeholders to ensure completion of the general education requirements. Courses may be rearranged to fit the needs or recommendations of the student's program of study. Gen Ed courses may be taken during winter term (January between the semesters) and summer to reduce the course load during regular terms (fall and spring). Students should consult with their advisor and/or the college academic services director in their college/school for assistance with course and schedule planning. Refer to the general education requirements (<http://catalog.uwlax.edu/undergraduate/generaleducation/>) for more specific details.

At least 40 credits of the 120 credits required must be earned at the 300/400-level.

Note: New students and transfer students with 15 or fewer credits earned are required to take FYS 100 First-Year Seminar (3 cr.) during one of their first two semesters at UWL.

This sample degree plan does not establish a contractual agreement. It identifies the minimum requirements a student must successfully complete, to qualify for a degree, in a format intended to assist the student in planning their academic career. Actual degree plans may differ.

Year 1		
Fall	Credits Spring	Credits
GEO 101 (Gen Ed Natural Lab Science)	4 GEO 200	3
GEO 110 (Gen Ed Global Studies)	3 CST 110 (Gen Ed Literacy-Oral)	3
ENG 110 or 112 (Gen Ed Literacy-Written)	3 FYS 100 (Gen Ed First-Year Seminar)	3
Gen Ed Arts	2-3 STAT 145 (Gen Ed Math/Logical Systems)	4
Gen Ed World History	3 Gen Ed Arts	2-3
	15	15
Year 2		
Fall	Credits Spring	Credits
GEO 305	3 GEO 405	3
Earth's Environmental Systems (see list)	3-4 Gen Ed Humanistic Studies	3
Gen Ed Minority Cultures	3 202-level Language (CSH BA Core)	4
Gen Ed Self & Society	3 Gen Ed Natural Lab Science (not GEO/ESC)	4

Gen Ed Health & Well-Being	3 University Elective	1
	15	15
Year 3		
Fall	Credits Spring	Credits
GEO 415	3 GEO 445 or 455	3
GEO 418	3 GEO 485	3
University Elective	3 CSH Core (300/400 CASSH elec) or CASSH Minor	3
Gen Ed Math or CS 120 (CSH Core)	3-4 University 300/400 Elective	3
University Elective	2 University Elective	3
	14	15
Year 4		
Fall	Credits Spring	Credits
GEO 401	1 Humans and the Environment (see list) (Writing Emphasis)	3
CSH Core (300/400 CASSH elec) or CASSH Minor	3 Geography Elective (see list) (Writing Emphasis)	3
CSH Core or CASSH Minor ¹	3 CSH Core (300/400 CASSH elec) or CASSH Minor	3
University 300/400 Elective	3 CSH Core or CASSH Minor ¹	3
University 300/400 Elective	3 University 300/400 Elective	3
University Elective	3 Exit Survey Requirement ²	
	16	15

Total Credits: 120

¹ See CSH BA Core Requirements (<http://catalog.uwlax.edu/undergraduate/scienceandhealth/#Core>) for information on completing the individualized option. 300/400 requirements for graduation may be impacted.

² During the student's last semester of enrollment, completion of the Department of Geography and Environmental Science exit survey is required in order to graduate.