### Geography Major - Bachelor of Science (BS)

**Major requirements**

(All colleges, excluding teacher certification programs)

38 credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESC 101</td>
<td>Earth Environments</td>
<td>4</td>
</tr>
<tr>
<td>GEO 110</td>
<td>World Cultural Regions</td>
<td>3</td>
</tr>
<tr>
<td>GEO 200</td>
<td>Conservation of Global Environments</td>
<td>3</td>
</tr>
<tr>
<td>GEO/ESC 250</td>
<td>Maps and GIS</td>
<td>3</td>
</tr>
<tr>
<td>GEO/ESC 385</td>
<td>Introduction to Geographic Information System and Science</td>
<td>3</td>
</tr>
<tr>
<td>GEO 401</td>
<td>Focus on Geography: A Capstone Course</td>
<td>1</td>
</tr>
</tbody>
</table>

**Cultural geography**

Select one of the following:

- GEO 300  Population Geography
- GEO 306  Economic Geography
- GEO 307  Political Geography
- GEO 309  Urban Geography
- GEO 310  Transportation Geography
- GEO/ESC 321 Sustainable Development and Conservation

**Techniques**

Select one of the following:

- GEO/ESC 345 Remote Sensing
- GEO/ESC 355 Map Design and Geovisualization
- GEO/ESC 390 Geospatial Field Methods
- GEO 395  Geospatial Applications of Unmanned Aerial Systems
- GEO/ESC 440 Geographic Interpretation of Aerial Photographs
- GEO/ESC 445 Advanced Remote Sensing
- GEO/ESC 455 Web Mapping
- GEO 465  Scripting in GIS
- GEO 485  Advanced Geographic Information Science
- GEO 488  Spatial Data Analysis

**Regional geography**

Select one of the following:

- GEO 201  Geography of United States and Canada
- GEO 304  Geography of Europe
- GEO 312  Geography of Africa
- GEO 318  The Geography of Latin America and the Caribbean
- GEO 328  Geography of East and Southeast Asia
- GEO 331  Geography of the Middle East, Central and South Asia
- GEO 335  Islamic Asia: Cradle of Civilizations, Geographies of Conflict
- GEO 340  Earth’s Polar Regions

**Physical geography**

Select one of the following:

- ESC 221  Weather and Climate
- ESC 222  Earth Surface Processes and Landforms
- GEO/ESC 422 Meteorology
- GEO/ESC 425 Biogeography
- GEO/ESC 426 Soil Systems
- GEO/ESC 427 Water Resources
- GEO/ESC 428 Past Environmental Change
- GEO/ESC 430 River Systems
- GEO/ESC 460 Environmental Hazards

**Elective credits**

Select three additional courses, two of which must be at the 300 level or above in cultural and/or regional geography, from those listed above or the following:

- GEO 102  Maps and Society
- GEO 202  Contemporary Global Issues
- GEO 204  Geography of Wisconsin
- ESC 211  Global Warming and Climate Change
- GEO/ESC 450 Geography Internship
- GEO/ESC 470 Special Topics in Geography/Earth Science
- GEO/ESC 490 Independent Study
- GEO/ESC 495 Seminar in Geography/Earth Science
- GEO/ESC 499 Undergraduate Research

**Total Credits** 38

### 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 [link](http://catalog.uwlax.edu/undergraduate/generaleducation)
- College core (p. 1)
- Baccalaureate degree requirements (p. 2)

### College of Science and Health (CSH) Bachelor of Science 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 304, BIO 210, CHM 104, ESC 221, ESC 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 Science degree**, in addition to all other College of Science and Health core requirements, students from non-exempted programs must complete one of the following options. It is recommended that courses are selected in consultation with students’ academic advisor.
1. Complete a second major; or
2. Complete a minor outside the major; or
3. Complete an individualized option, consisting of 18 credits
   a. At least 12 credits must be earned at the 300/400 level outside the major department.
   b. The remaining six credits should come from
      i. 100 level or higher courses outside the major (General education courses may apply provided they are not being used to fulfill minimum general education requirements.); or
      ii. 300/400 level courses inside major not being used to fulfill major requirements.
   c. Internship credits may not count toward the individualized option.

1 The list of exempted CSH programs is below.

**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. (No substitutions for graduation may be made in course requirements for a major or minor after the fourth week of the last semester of the senior year.)
4. Earn a minimum of 120 semester credits with at least a 2.00 cumulative GPA.¹
5. At least 40 credits must be earned in 300/400 level courses. Transfer courses earned at the 300/400 level apply to this requirement. Courses earned at the 100/200 level that transferred to UWL as 300/400 level courses do not apply to this requirement.
6. Complete major and minor requirements with at least a 2.00 GPA¹ 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.

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/psp/csprod/?cmd=login&languageCd=ENG) 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.

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

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 plan their academic career. Actual degree plans may differ.

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<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
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<tr>
<td>ESC 101 (Gen Ed Natural Lab Science)</td>
<td>4 GEO 200 (Gen Ed Global Studies)</td>
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<tr>
<td>GEO 110 (Gen Ed Global Studies)</td>
<td>3 CST 110 (Gen Ed Literacy-Oral)</td>
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<tr>
<td>ENG 110 or 112 (Gen Ed Literacy-Written)</td>
<td>3 Gen Ed Health &amp; Well Being</td>
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<tr>
<td>Gen Ed Arts</td>
<td>2-3 Gen Ed Arts</td>
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<tr>
<td>Gen Ed World Hist</td>
<td>3 Gen Ed Math</td>
<td>4-5</td>
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<th>Year 2</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
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<tr>
<td>GEO 250 or ESC 250</td>
<td>3 Regional Geography (see list)</td>
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<tr>
<td>University Elective</td>
<td>4 Gen Ed Hum-Lit</td>
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<tr>
<td>Gen Ed Minority Cultures</td>
<td>3 Gen Ed Math/Logical Systems</td>
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<td>Gen Ed Self &amp; Society</td>
<td>3 Gen Ed Natural Lab Science (not GEO/ESC)</td>
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<td>University Elective</td>
<td>3 Elective</td>
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<td>Credits</td>
<td>Spring Credits</td>
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<td>Geography Techniques (see list)</td>
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<td>GEO 385 or ESC 385</td>
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<td>Cultural Geography (see list) (Writing Emphasis)</td>
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<td>CSH Core (300/400 not GEO/ESC) or Minor</td>
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<td>GEO 202 (additional GEO elective + Gen Ed elective)</td>
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<td>Spring Credits</td>
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<td>GEO 401</td>
<td>1 300/400</td>
<td>Cultural and/or Regional Geography Elective - see list</td>
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<td>Physical Geography (see list) (Writing Emphasis)</td>
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<td>300/400 Cultural and/or Regional Geography Elective - see list</td>
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<td>CSH Core or Minor</td>
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Total Credits: 120

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