GEOPHYSICS, ENVIRONMENTAL GEOGRAPHY, COMPREHENSIVE MAJOR

Liberal Arts (Code 140-007)

University Requirements

GRADUATION REQUIREMENTS FOR BACCALAUREATE DEGREE

Credit Requirements

<table>
<thead>
<tr>
<th>Credit Requirements</th>
<th>120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum total for graduation</td>
<td></td>
</tr>
<tr>
<td>Upper division credits (courses numbered 300 and higher)</td>
<td>39</td>
</tr>
<tr>
<td>Liberal Education Core</td>
<td></td>
</tr>
<tr>
<td>Academic Concentrations</td>
<td></td>
</tr>
</tbody>
</table>

Academic Concentrations

Grade Point Requirements

<table>
<thead>
<tr>
<th>Grade Point Requirements</th>
<th>2.00 average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td></td>
</tr>
<tr>
<td>Resident</td>
<td></td>
</tr>
<tr>
<td>Major</td>
<td></td>
</tr>
<tr>
<td>Minor</td>
<td></td>
</tr>
<tr>
<td>Certificate</td>
<td></td>
</tr>
</tbody>
</table>

University Residency Requirements

<table>
<thead>
<tr>
<th>University Residency Requirements</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum total</td>
<td></td>
</tr>
<tr>
<td>Senior year</td>
<td>23</td>
</tr>
<tr>
<td>Major, Standard, upper division in residence</td>
<td>12</td>
</tr>
<tr>
<td>Major, Comprehensive, upper division in residence</td>
<td>21</td>
</tr>
<tr>
<td>Certificate</td>
<td></td>
</tr>
</tbody>
</table>

Procedures Required for Graduation

- Obtain admission to the degree program and/or the College offering it.
- Apply for graduation on CampS.

1 Certain programs exceed this minimum.
2 See special requirements in each College.

Applicability of Credits Toward Graduation

Junior College or Two-Year College Credits. A maximum of 72 semester credits earned in a junior college or two-year college will be accepted as degree credits at UW-Eau Claire.

Extension Credits. Credits earned in credit outreach courses offered by UW-Eau Claire are treated as resident credits. Credits earned in extension courses offered by other units of the University of Wisconsin System are treated as transfer credits. All other (non-UW) extension and correspondence credits are normally limited to one-fourth of the total required for graduation from any curriculum.

WTCS Credits. A maximum of 72 semester credits earned in college parallel programs at Madison Area Technical College, Milwaukee Area Technical College, Nicolet Area Technical College, or Chippewa Valley Technical College may be accepted as degree credits at UW-Eau Claire. A set number of general education courses will be accepted from other technical schools. Occupational and technical courses may also be considered for transfer if the quality and content of the course work from the technical college is judged to be comparable to course work at UW-Eau Claire. Refer to the Transfer Credit Wizard (https://my.uwec.edu/psp/PUBLIC/EMPLOYEE/HRMS/c/EAU_SS_CUSTOM.EAU_TRNCRDWZ.GBL) or contact the UW-Eau Claire Admissions Office for information about the current transfer policy.

USAFI Credit. UW-Eau Claire will accept up to 32 semester credits for work done through the United States Armed Forces Institute, under the provision for non-UW correspondence credit (see Extension Credits above).

Activity Credit (band, chorus, drama, KINS 100-184 courses) Students may count toward graduation no more than one credit of KINS 110-184 courses. Students may count toward graduation no more than four credits earned in any single activity course and no more than 12 credits resulting from any combination of activity courses (excluding KINS 110-184 courses).

Other Restricted Credits. For other University restrictions, see the following: Cooperative Education; Credit by Examination; Satisfactory/Unsatisfactory Registration; Transfer of Credits. College or departmental restrictions may also be placed on Independent Study (399-499 courses), Directed Study (395-495), and other types of credits.

APPLICATION OF CREDITS TOWARD GRADUATION

<table>
<thead>
<tr>
<th>Credit Restrictions</th>
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<tbody>
<tr>
<td>Satisfactory/Unsatisfactory</td>
<td>12</td>
</tr>
<tr>
<td>Total degree credit</td>
<td></td>
</tr>
<tr>
<td>Major, Standard</td>
<td>1</td>
</tr>
<tr>
<td>Major, Comprehensive</td>
<td>2</td>
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</table>

Credit by Examination

<table>
<thead>
<tr>
<th>Credit Restrictions</th>
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</thead>
<tbody>
<tr>
<td>Total degree credit</td>
<td>¼ of total</td>
</tr>
<tr>
<td>Major or minor</td>
<td>½ of total</td>
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</table>

Two-Year College Credits

<table>
<thead>
<tr>
<th>Credit Restrictions</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Total degree credit</td>
<td>72</td>
</tr>
</tbody>
</table>

Activity credit (band, chorus, drama, KINS 100-184)

<table>
<thead>
<tr>
<th>Credit Restrictions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total KINS 100-184</td>
<td>1</td>
</tr>
<tr>
<td>Total Band, chorus, drama</td>
<td>12</td>
</tr>
<tr>
<td>Single course band, chorus, drama</td>
<td>4</td>
</tr>
</tbody>
</table>

Extension credits

<table>
<thead>
<tr>
<th>Credit Restrictions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UW-System</td>
<td>no maximum</td>
</tr>
<tr>
<td>Other extension/ correspondence</td>
<td>¼ of total</td>
</tr>
</tbody>
</table>

USAFI

<table>
<thead>
<tr>
<th>Credit Restrictions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USAFI</td>
<td>32</td>
</tr>
</tbody>
</table>

Liberal Education Core

The University of Wisconsin-Eau Claire measures learning outcomes to ensure that its graduates have achieved a liberal education and prepared themselves to contribute to a complex society. Upon graduation, each undergraduate will have met the four learning goals of our liberal education core and the 11 learning outcomes they comprise.
College Degree Requirements

Bachelor of Arts or Bachelor of Science Degree (B.A./B.S.)

University Graduation Requirements. All candidates for degrees must fulfill the requirements for credits, curriculum, GPA, and University residency as specified in the section of this catalog titled University Graduation Requirements.

LIBERAL EDUCATION CORE REQUIREMENTS

**Knowledge Goal**

Knowledge Outcome 1 (K1): Natural Sciences

Two (2) learning experiences

One experience in laboratory science must be selected from either K1 or K2.

Knowledge Outcome 2 (K2): Social Sciences

Two (2) learning experiences

One experience in laboratory science must be selected from either K1 or K2.

Knowledge Outcome 3 (K3): Humanities

Two (2) learning experiences

Knowledge Outcome 4 (K4): Fine Arts

One (1) learning experience

Skills Goal

Skills Outcome 1 (S1): Written and Oral Communication

Two (2) learning experiences

One S1 must meet the University Writing Requirement

Skills Outcome 2 (S2): Mathematics

One (1) learning experience

One S2 to meet the University Mathematics Requirement

Skills Outcome 3 (S3): Creativity

One (1) learning experience

Responsibility Goal

Responsibility Outcome 1 (R1): Equity, Diversity, and Inclusivity

Two (2) learning experiences

One R1 must satisfy Design for Diversity

Responsibility Outcome 2 (R2): Global Perspectives

One (1) learning experience

Responsibility Outcome 3 (R3): Civic and Environmental Issues

One (1) learning experience

Integration Goal

Integration Outcome 1 (I1): Integration

Two (2) learning experiences

Service-Learning Goal

Service-Learning

30 hours

College Graduation Requirements: Grade Point Averages. All candidates for degrees in the College of Arts and Sciences must earn minimum resident and total GPAs of 2.00 in the major, the minor, and the certificate. The resident and total GPAs for the major are computed using all attempted credits applicable to the major including those offered by departments other than the major department. The resident and total GPAs for the minor and the certificate are computed similarly.

Major-Minor and Major-Certificate Requirements. A standard major (a minimum of 36 credits) must be supplemented by a minor (a minimum of 24 credits) or by a certificate (12 to 18 credits) to meet graduation requirements for completing a first and second degree program. No minor or certificate is required with a Comprehensive Major (60 or more credits) or with two majors of 36 or more credits each.

Certain degree programs, which include Comprehensive Majors, may require more than the minimum of 120 credits for graduation.

Acceptable academic program combinations are determined at the college level. A major and a minor or a major and certificate or two majors (if available) may not be elected in the same department or program, except in the approved combinations listed here.

College Credits. Earn at least 90 credits in courses offered by the College of Arts and Sciences.

Bachelor of Arts Degree in the College of Arts and Sciences (B.A.)

Fulfillment of all University Graduation Requirements (which includes the Liberal Education Core); all College-level degree requirements (major and minor/certificate emphases, GPAs, earning at least 90 credits in Arts and Sciences course work); foreign language competency at the 102 level. Foreign language competency may be met in one of two ways: (1) Achieve a score on the foreign language placement test that qualifies the student to enter the 201-level course in a foreign language. (2) Earn a grade of at least C (not C-) or a mark of S in a 102-level foreign language course or (or AIS 112 or AIS 122 / LANG 122 or CSD 103).

Bachelor of Science Degree in the College of Arts and Sciences (B.S.)

Fulfillment of all University Graduation Requirements (which includes the Liberal Education Core); all College-level degree requirements (major and minor/certificate emphases, GPAs, earning at least 90 credits in Arts and Sciences course work); mathematics competency at the MATH 111, MATH 112 or MATH 113 level. Mathematics competency can be met in one of three ways: (1) Achieve a score on the mathematics placement test that qualifies the student to enter MATH 114. (2) Earn a grade of at least C (not C-) or a mark of S in MATH 111, MATH 112, or MATH 113. (3) Achieve a satisfactory score on the MATH 112 competency test. This test may be attempted no more than two times.

Major Requirements

Comprehensive Major

A minimum of 60 semester credits, including completion of:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 104</td>
<td>The Physical Environment</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 111</td>
<td>Human Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 178</td>
<td>Conservation of the Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 200</td>
<td>Foundations of Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 335</td>
<td>Geographic Information Systems I</td>
<td>3</td>
</tr>
</tbody>
</table>
GEOG 370  Quantitative Methods in Geography  3
GEOG 401  Capstone Seminar  3
Five additional courses to be selected from three of five Advanced Geography Approaches 1

1 One of the additional courses must be GEOG 368 - note that the Advanced Geography Approach to which it applies may vary by semester.

Environmental Geography
Geography major coursework plus 12 credits from environmental courses from other disciplines (selected with consent of advisor)
Geography electives to complete 60 credits; at least one elective must be an upper level Physical Geography course and one elective must be an upper level Human-Environmental Geography course

Advanced Geography Approaches
Five courses from at least three advanced approaches are required for major programs. Four courses from at least three advanced approaches are required for minor programs.

Physical Geography
GEOG 304  Introduction to Geomorphology  4
GEOG 340  Climatology  3
GEOG 345  Quaternary Environments  3
GEOG 350  Soils and the Environment  4
GEOG 355  Biogeography  4
GEOG 363  Watershed Analysis  4
GEOG 364  Fluvial Processes and Landforms  4

Human-Environmental Geography
GEOG 270  Land Use Issues and Problems  3
GEOG 341  Weather and Society  3
GEOG 361  Environmental Hazards  3
GEOG 365  Tourism Geographies  3
GEOG 375  Environmental Quality  3
GEOG 377  U.S. Environmental and Sustainability Policy  3
GEOG 378  International Environmental Problems and Policy  3
GEOG 388  Military Geography  3
GEOG 445  Historical Geography  3

Human Geography
GEOG 155  Economic Geography  3
GEOG 188  Cultural Landscapes of North America  3
GEOG 312  Space, Society, Subject  3
GEOG 313  Culture and Transnational Dynamics  3
GEOG 322  Native Geographies  3
GEOG 352  Business Geographics  3
GEOG 366  Geography International Immersion Experience  1-3
GEOG 367  Landscape Analysis: Cultural  3
GEOG 369  Geography of Food  3

GEOG 446  Political Geography  3
GEOG 470  Urban Geography  3

Geography Techniques
GEOG 280  Cartographic Design  3
GEOG 335  Geographic Information Systems I 1  3
GEOG 336  Geospatial Field Methods  3
GEOG 337  Geographic Information Systems II  3
GEOG 338  Remote Sensing of the Environment  3
GEOG 339  Computer Mapping  3
GEOG 358  LIDAR Analysis & Applications  3
GEOG 370  Quantitative Methods in Geography 1  3
GEOG 390  Unmanned Aerial Systems  3
GEOG 435  Geographic Information Systems III  3
GEOG 438  Advanced Remote Sensing  3
GEOG 455  Web Geographic Information Systems  3

Regional Geography
GEOG 301  Geography of Western Europe  3
GEOG 308  Geography of Russia and Eastern Europe  3
GEOG 319  Geography of the Middle East and North Africa  3
GEOG 321  Geography of Latin America  3
GEOG 325  Geography of the United States and Canada  3
GEOG 379  Geography of Wisconsin  3

Other Geography Courses
The following courses can be applied to any of the five approaches with consent of the advisor:
GEOG 368  Geography Field Seminar 1  3
GEOG 395  Directed Studies  1-3
GEOG 399  Independent Study - Juniors  1-3
GEOG 491  Special Topics  1-3
GEOG 498  Geography Internship  1-3
GEOG 499  Independent Study - Seniors  1-3

1 Required courses.