GEOLOGY, DUAL DEGREE GEOLOGICAL ENGINEERING EMPHASIS, COMPREHENSIVE MAJOR

Liberal Arts (Code 160-014)

University Requirements

GRADUATION REQUIREMENTS FOR BACALAUREATE DEGREE

Credit Requirements

Minimum total for graduation 1 120
Upper division credits (courses numbered 300 and higher) 39
Liberal Education Core 36

Academic Concentrations

Grade Point Requirements 2

Total 2.00 average
Resident 2.00 average
Major 2.00 average
Minor 2.00 average
Certificate 2.00 average

University Residency Requirements

Minimum total 30
Senior year 23
Major, Standard, upper division in residence 12
Major, Comprehensive, upper division in residence 21
Certificate 25 percent of credits

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_S5_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.

APPLICABILITY OF CREDITS TOWARD GRADUATION

Credit Restrictions

Satisfactory/Unsatisfactory
Total degree credit maximum 12
Major, Standard maximum 1 course
Major, Comprehensive maximum 2 courses

Credit by Examination
Total degree credit maximum ¼ of total
Major or minor maximum ½ of total

Two-Year College Credits
Total degree credit maximum 72 credits

Activity credit (band, chorus, drama, KINS 100-184)
Total KINS 100-184 maximum 1 credit
Total Band, chorus, drama maximum 12 credits
Single course band, chorus, drama maximum 4 credits

Extension credits
UW-System no maximum
Other extension/ correspondence maximum ¼ of total

USAFI
USAFI maximum 32 credits

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.
## LIBERAL EDUCATION CORE REQUIREMENTS

<table>
<thead>
<tr>
<th>Knowledge Goal</th>
<th>Knowledge Outcome 1 (K1): Natural Sciences</th>
<th>Two (2) learning experiences</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>One experience in laboratory science must be selected from either K1 or K2.</td>
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<tr>
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<td>Knowledge Outcome 2 (K2): Social Sciences</td>
<td>Two (2) learning experiences</td>
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<td></td>
<td>One experience in laboratory science must be selected from either K1 or K2.</td>
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<tr>
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<td>Knowledge Outcome 3 (K3): Humanities</td>
<td>Two (2) learning experiences</td>
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<td></td>
<td>Knowledge Outcome 4 (K4): Fine Arts</td>
<td>One (1) learning experience</td>
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<thead>
<tr>
<th>Skills Goal</th>
<th>Skills Outcome 1 (S1): Written and Oral Communication</th>
<th>Two (2) learning experiences</th>
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<tbody>
<tr>
<td></td>
<td>One S1 must meet the University Writing Requirement</td>
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<td>Skills Outcome 2 (S2): Mathematics</td>
<td>One (1) learning experience</td>
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<td>One S2 to meet the University Mathematics Requirement</td>
<td></td>
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<tr>
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<td>Skills Outcome 3 (S3): Creativity</td>
<td>One (1) learning experiences</td>
</tr>
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<tr>
<th>Responsibility Goal</th>
<th>Responsibility Outcome 1 (R1): Equity, Diversity, and Inclusivity</th>
<th>Two (2) learning experiences</th>
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<tbody>
<tr>
<td></td>
<td>One R1 must satisfy Design for Diversity</td>
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<tr>
<td></td>
<td>Responsibility Outcome 2 (R2): Global Perspectives</td>
<td>One (1) learning experiences</td>
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<tr>
<td></td>
<td>Responsibility Outcome 3 (R3): Civic and Environmental Issues</td>
<td>One (1) learning experiences</td>
</tr>
</tbody>
</table>

| Integration Goal | Integration Outcome 1 (I1): Integration | Two (2) learning experiences |

| Service-Learning Goal | Service-Learning | 30 hours |

### 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.

**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 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

**Liberal Arts (Code 160-014)**

The objective of the comprehensive major in geology is to prepare students for graduate programs in geological sciences or for careers as professional geologists, hydrogeologists, or geological engineers. The liberal arts comprehensive major requires completion of the Core and one of the five emphases listed below.
NOTE: Communication classes, both written and oral, are strongly recommended to fulfill liberal education requirements in any of the following emphases.

Core Requirements for all Liberal Arts and Teaching Emphases in the Comprehensive Geology Major

23-25 credits
Select one of the following: 4

- GEOL 106 Earth Science
- GEOL 110 Physical Geology
- GEOL 115 Environmental Geology
- GEOL 118 Societal Issues in Earth Science

Required:

- GEOL 312 Mineralogy and Petrology I 5
- GEOL 320 Sedimentology and Stratigraphy 4
- GEOL 468 Computers in Geology 1
- GEOL 470 Field Geology I 3
- CHEM 115 Chemical Principles (or equivalent) 6

Capstone Experience 1 0-2

1 Each major is required to complete a capstone experience.

For liberal arts majors, the capstone options may include: GEOL 395 (for a minimum of two credits) or GEOL 471. The capstone will consist of student selection of one of the following options: faculty/student collaborative research, preparation and presentation of a department seminar, internship, field experiences, or other approved experiences. Students working with their adviser will submit a proposal to the department faculty outlining their choice of the capstone experience and explicitly stating how the capstone fits into their personal career goals. The proposal for a capstone experience must be submitted to the chair of the department no later than the second week of the first semester of the senior year.

For teaching majors, the capstone may be satisfied by successful completion of the professional semester in the College of Education and Human Sciences.

Dual Degree Geological Engineering Emphasis

This emphasis combines the benefits of a traditional geology degree with those of a formal engineering education. In this program students receive a UW-Eau Claire geology degree in conjunction with a bachelor's degree in engineering from the University of Minnesota. Students will typically complete most of the UW-Eau Claire University requirements and Dual Degree geology requirements while at UW-Eau Claire before transferring to the engineering school. Students must complete a minimum of 84 semester credits before transferring to the engineering school, 56 of which must be taken in residence at UW-Eau Claire.

This emphasis comprises the geology Core plus the required credits as listed below. Successful completion of Geol 470 with a grade of C or above will constitute completion of the capstone experience. Students should visit the department office for a sample course schedule that would allow them to complete three full years at UW-Eau Claire and be prepared to transfer to the University of Minnesota for an additional one to two years.

Students must fulfill the liberal education requirements of both UW-Eau Claire and the University of Minnesota. This can be accomplished in a reasonable manner with careful course selection. Please see Geology advisor.

Required Courses

- GEOL 315 Hydrogeology I 4

GEOL 330 Structural Geology 4
GEOL 345 Geomorphology and Aerial Photography Interpretation 3
or GEOL 420 Glacial Geology 4
GEOL 461 Applied Geophysics 4
MATH 215 Calculus II 4
MATH 216 Calculus III 4
PHYS 231 University Physics I 5
PHYS 232 University Physics II 5
PHYS 255 Statics 3

NOTES:

1) For students planning to practice as professional engineers, GEOG 335; GEOL 416 at UW-Eau Claire or equivalent courses at University of Minnesota are strongly recommended.

2) Students should plan on taking MATH 311 (UW-Eau Claire; Differential Equations) or Math 2243 (University of Minnesota; Differential Equations and Linear Algebra) prior to the first semester at University of Minnesota. Differential Equations is a prerequisite for the fluid mechanics course which is to be taken during the first semester at UM.

3) No degree credit may be earned under the Satisfactory/Unsatisfactory option in any required courses in a geology major or minor.