## ENVIRONMENTAL GEOSCIENCE, BS

## Degree Requirements

## Requirements for Students Matriculating in or before Academic

 Year 2023-2024. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/ \#matriculation).Minimum Overall Grade Point Average: 2.00
Total Hours: 120

| Code $\quad$ Title | Hours |
| :--- | :--- | ---: |
| General Education Requirements |  |
| English Composition |  |
| See Academic Regulation 3.5 (http://catalog.okstate.edu/ <br> university-academic-regulations/\#english-composition) |  |
| ENGL 1113 Composition I <br> or ENGL 1313 Critical Analysis and Writing I |  |
| Select one of the following: | 3 |


| ENGL 1213 | Composition II |
| :--- | :--- |
| ENGL 1413 | Critical Analysis and Writing II |
| ENGL 3323 | Technical Writing |
| American History \& | Government |
| HIST 1103 | Survey of American History |
| or HIST 1483 American History to 1865 (H) <br> or HIST 1493 American History Since 1865 (DH) |  |

POLS 1113 American Government 3

| Analytical \& Quantitative Thought (A) |  |
| :--- | :--- |
| MATH 1513 | College Algebra (A) |


| Humanities $(H)$ |
| :--- |
| Courses designated $(\mathrm{H})$ |

Natural Sciences ( $N$ )
$\begin{array}{ll}\text { Must include one Laboratory Science (L) course } \\ \text { BIOL } 1114 & \text { Introductory Biology (LN) }\end{array}$
CHEM 1314 Chemistry I (LN) 4
Social \& Behavioral Sciences ( $(S)$

Course designated (S) 3
Additional General Education
Courses designated (A), (H), (N), or (S)
8

Hours Subtotal 40
Diversity (D) \& International Dimension (I)
May be completed in any part of the degree plan
Select at least one Diversity (D) course
Select at least one International Dimension (I) course

## College/Departmental Requirements

## First Year Seminar

(Transfer students with 15 hours exempt) 1

## Arts \& Humanities

See note 2.a.3

## Natural \& Mathematical Sciences

GEOL 1014 Geology and Human Affairs (LN)

| or GEOL 1114 | Physical Geology (LN) |  |
| :--- | :--- | ---: |
| PHYS 1114 | College Physics I (LN) | 4 |
| GEOL 4300 | Geology Colloquium | 1 |
| Foreign Language |  |  |
| $0-6$ hours. See note 3. |  |  |
| Upper-Division General Education |  |  |
| Select 6 hours outside major department. See note 2.c. |  |  |

Hours Subtotal 13
Major Requirements
Minimum grade of "C" in all Geology courses.

| GEOL 2103 | Fundamentals of Geophysics | 3 |
| :--- | :--- | :--- |
| GEOL 2403 | Chemistry of Earth Systems | 3 |
| GEOL 2464 | Rocks and Minerals | 4 |
| GEOL 3503 | Environmental Geology (N) | 3 |
| GEOL 4453 | Hydrogeology | 3 |
| GEOG 4073 | Climate Change: Past, Present, and Future | 3 |
| GEOG 4203 | Fundamentals of Geographic Information | 3 |

## Systems

GEOG 4343 Geographic Information Systems: Resource 3
Management Applications
NREM 3013 Applied Ecology and Conservation ${ }^{1}$ 3-4

| or BIOL 3034 | General Ecology |  |
| :--- | :--- | ---: |
| or ENVR 3113 | Sampling and Analyses for Solving Environmental <br> Problems |  |
| SOIL 2124 | Fundamentals of Soil Science (N) | 4 |
| POLS 4363 | Environmental Law And Policy | 3 |
| Select 17-18 hours from the following: ${ }^{1}$ |  |  |


| GEOL 1224 | Evolution of the Earth (LN) |
| :--- | :--- |
| GEOL 3014 | Structural Geology |
| GEOL 3034 | Principles of Stratigraphy and <br> Sedimentology |
| GEOL 3073 | Geomorphology |
| GEOL 3103 | Paleontology |
| GEOL 4463 | Physical Hydrogeology |
| GEOL 4503 | Introduction to Oceanography (N) |
| GEOL 4583 | Environmental Data Analytics |
| GEOG 3333 | Spatial Analysis (A) |
| GEOG 4053 | Biogeography |
| GEOG 4333 | Remote Sensing |
| GEOG 4263 | Geospatial Applications for Unmanned |
| ENVR 1113 | Elerial Systems |
| NREM 3153 | Forest Health and Disturbance Ecology |
| BIOL 4434 | Limnology |

Hours Subtotal 53
Electives
Select 14 hours 14
Hours Subtotal 14
Total Hours 120
1
If BIOL 3034 taken, then 17 hours will need to be taken from this group.

## Other Requirements

- See the College of Arts and Sciences Requirements.
- Upper-Division Credit: Total hours must include at least 40 hours in courses numbered 3000 or above.


## College of Arts and Sciences Requirements

1. Hours in One Department: For B.A. and B.S. degrees, no more than 54 hours in one department may be required to meet degree requirements. Courses used to satisfy the General Education English Composition, U.S. History, American Government, and Mathematics or Statistics requirements will not count toward the 54hour maximum required from one department.

## 2. A\&S College/Departmental Requirements

a. Arts and Humanities are defined as any course carrying an (H) designation or courses from AMST, ART, DANC, ENGL (except ENGL 3323 Technical Writing) HIST, MUSI, PHIL (except PHIL 1313 Logic and Critical Thinking (A), PHIL 3003 Symbolic Logic (A) and PHIL 4003 Mathematical Logic and Computability), REL, TH, and foreign languages.
b. Natural and Mathematical Sciences are defined as any course from the following prefixes: ASTR, BIOC, BIOL, CHEM, CS (except CS 4883 Social Issues in Computing), GEOL, MATH, MICR, PBIO, PHYS, and STAT; or courses from other departments that carry an $(A)$ or $(N)$ general education designation.
c. Six upper-division hours are required from General Education or any CAS courses outside the student's major department (http:// catalog.okstate.edu/college-arts-sciences-major-departments/). This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).
d. Non-Western Studies Requirement for B.A. and B.F.A.; One course in Non-Western Studies (N.W.). This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).
e. The College of Arts \& Sciences requires a minimum 2.0 GPA in all major requirements and a minimum 2.0 GPA in all major-prefix courses applied to the degree.
3. Foreign Language Proficiency
a. The foreign language requirement for the B.A. may be satisfied by 9 hours college credit in the same language, which must include 3 hours at the 2000-level, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement. Currently Arabic and Mvskoke are not offered at the 2000-level at OSU.
b. The foreign language requirement for the B.S., B.M. and B.F.A. may be satisfied by presenting a high school transcript which demonstrates two years of study of a single foreign language (passing grades at second-year level of study). It may also be satisfied by 6 hours college credit in the same language, which must include language courses 1713 and 1813, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript
which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement.
c. In addition to a. and b., students pursuing teacher certification must meet novice-high foreign language proficiency by presenting a high school transcript which demonstrates two years of study of a single foreign language with no grade below B. Or, students may complete 3 hours college credit in a single language with no grade below $C$ (or pass an advanced standing examination, College Level Examination Program (CLEP) exam, or Oral Proficiency Interview developed by the American Council on the Teaching of Foreign Languages, equivalent to 3 hours of college credit.) Or, students may meet the requirement by transfer of documentation of meeting the foreign language competency from one of the teacher education programs in the State of Oklahoma approved by the Oklahoma State Regents for Higher Education.
4. Exclusions. Courses with ATHL or LEIS prefixes and leisure activity courses may not be used for degree credit.

## Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or $50 \%$ of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; onefourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2029.


## Example Plan of Study

## Finish in Four Plan of Study

The plan below is an example of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.


| Sophomore |  |  |
| :---: | :---: | :---: |
| Fall |  |  |
| GEOL 2464 | Rocks and Minerals | 4 |
| PHYS 1114 | College Physics I (LN) | 4 |
| General Education courses |  | 6 |
|  | Hours | 14 |
| Spring |  |  |
| $\begin{aligned} & \text { GEOL } 2403 \\ & \quad \text { or GEOL } 2103 \end{aligned}$ | Chemistry of Earth Systems (GEOL 2403 in even years and GEOL 2103 in odd years) or Fundamentals of Geophysics | 3 |
| GEOL 4300 | Geology Colloquium | 1 |
| SOIL 2124 | Fundamentals of Soil Science ( N ) | 4 |
| Major, College, or Elective courses |  | 7 |
|  | Hours | 15 |
| Junior |  |  |
| Fall |  |  |
| GEOG 4073 | Climate Change: Past, Present, and Future | 3 |
| GEOG 4203 | Fundamentals of Geographic Information Systems | 3 |
| NREM 3013 or BIOL 3034 or ENVR 3113 | Applied Ecology and Conservation <br> or General Ecology <br> or Sampling and Analyses for Solving Environmental Problems | 3 |
| Major, College, and Elective courses |  | 6 |
|  | Hours | 15 |
| Spring |  |  |
| $\begin{aligned} & \text { GEOL } 2103 \\ & \quad \text { or GEOL } 2403 \end{aligned}$ | Fundamentals of Geophysics (GEOL 2103 in odd years and GEOL 2403 in even years) or Chemistry of Earth Systems | 3 |
| GEOL 3503 | Environmental Geology ( N ) | 3 |
| Major, College, and Elective courses |  | 9 |
|  | Hours | 15 |
| Senior |  |  |
| Fall |  |  |
| GEOG 4343 | Geographic Information Systems: Resource Management Applications | 3 |
| GEOL 4453 | Hydrogeology | 3 |
| NREM 4043 or POLS 4593 | Natural Resource Administration and Policy (if needed) or Natural Resources and Environmental Policy | 3 |
| Major, College, and Elective courses |  | 6 |
|  | Hours | 15 |
| Spring |  |  |
| $\begin{aligned} & \text { POLS } 4593 \\ & \text { or POLS } 4363 \end{aligned}$ | Natural Resources and Environmental Policy (if NREM 4043 was not taken in Fall) or Environmental Law And Policy | 3 |
| Major, College, and Elective courses |  | 12 |
|  | Hours | 15 |
|  | Total Hours | 120 |

