GEOPHYSICS, 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	Title	Hours
General Education F	Requirements	
English Composition		
	lation 3.5 (http://catalog.okstate.edu/ -regulations/#english-composition)	
ENGL 1113	Composition I	3
or ENGL 1313	Critical Analysis and Writing I	
Select one of the fol	•	3
ENGL 1213	Composition II	
ENGL 1413	Critical Analysis and Writing II	
ENGL 3323	Technical Writing	
American History & G	Government	
HIST 1103	Survey of American History	3
or HIST 1483	American History to 1865 (H)	
or HIST 1493	American History Since 1865 (DH)	
POLS 1113	American Government	3
Analytical & Quantita	tive Thought (A)	
MATH 2144	Calculus I (A) ¹	4
Humanities (H)		
Courses designated	(H)	6
Natural Sciences (N)		
Must include one La	aboratory Science (L) course	
CHEM 1314	Chemistry I (LN) ¹	4
PHYS 2014	University Physics I (LN) ¹	4
Social & Behavioral S	Sciences (S)	
Course designated ((S)	3
Additional General Ed	ducation	
Courses designated	(A), (H), (N), or (S)	7
Hours Subtotal		40
Diversity (D) & Inter	national Dimension (I)	
May be completed in	n any part of the degree plan	
Select at least one [Diversity (D) course	
Select at least one I	nternational Dimension (I) course	
College/Department	tal Requirements	
First Year Seminar		
(Transfer students v	vith 15 hours exempt)	1
Arts & Humanities		
See note 2.a.		3
Natural & Mathemati	cal Sciences	
MATH 2153	Calculus II (A)	3
MATH 2163	Calculus III	3
MATH 2233	Differential Equations	3

0-6 hours. See note 3. Upper-Division General Education Select 6 hours outside major department. See note 2.c. Hours Subtotal Major Requirements Minimum grade of "C" in all Geology courses. GEOL 1114 Physical Geology (LN) 4 GEOL 1224 Evolution of the Earth (LN) 4 GEOL 2103 Fundamentals of Geophysics 3 GEOL 2464 Rocks and Minerals 4 GEOL 3014 Structural Geology 4 GEOL 3014 Structural Geology 4 GEOL 3034 Principles of Stratigraphy and Sedimentology 4 GEOL 4113 Seismic Interpretation 3 GEOL 4543 Introduction to Exploration Seismology 3 PHYS 2114 University Physics II (LN) 4 PHYS 3513 Mathematical Physics 3 Select 18 hours from the following: 18 GEOL 4023 Petroleum Geology GEOL 4213 Plate Tectonics GEOL 4431 Introduction to Well Log Analysis GEOL 4433 Applied Geostatistics GEOL 4443 Environmental Geophysics GEOL 4453 Hydrogeology GEOL 4463 Physical Hydrogeology GEOL 4463 Seismic Data Processing GEOL 4463 Seismic Data Processing GEOL 4990 Special Problems in Earth Science (1-9 hours) GEOL 4993 Senior Honors Thesis GEOG 4333 Remote Sensing Hours Subtotal Flectives Select 13 hours 13 May need to include 6 hours upper-division general outside major department (see note 2.c.) and 8 additional upper-division hours MATH 1513 and MATH 1813 required for students who do not
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place directly into MATH 2144
Recommended courses:
CS 1103 Computer Programming (A)
or CS 1113 Computer Science I (A)
MATH 3013 Linear Algebra (A)
PHYS 4113 Electricity and Magnetism
Hours Subtotal 13
Total Hours 120
1
College and Departmental Requirements that may be used to meet

College and Departmental Requirements that may be used to meet General Education Requirements.

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

 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.
- 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.