

Geology, B.A.

Learn more about the Bachelor of Arts in Geology (<https://www.temple.edu/academics/degree-programs/geology-major-st-geol-bs>).

The B.A. program is not intended for prospective geologists. The B.A. program is suitable for pre-medicine or pre-law students or for students planning to teach earth science in secondary schools.

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Bachelor of Arts

Summary of Requirements for the Degree

- University Requirements (123 total s.h.)
 - MATH 0701 (4 s.h.) and/or ENG 0701 (4 s.h.), if required by placement testing.
 - All Temple students must take a minimum of two writing-intensive courses at Temple as part of their major. Following is a list of courses that can be used to satisfy the writing-intensive requirement: EES 2096, EES 2097, EES 4696, EES 4796, or EES 4896.
 - Students must complete the General Education (GenEd) requirements.
 - See the General Education (<http://bulletin.temple.edu/undergraduate/general-education>) section of the *Undergraduate Bulletin* for the GenEd curriculum.
 - Students who complete CST majors typically receive a waiver for 2 Science & Technology (GS) and 1 Quantitative Literacy (GQ) GenEd courses.
 - Students must satisfy general Temple University residency requirements (<http://bulletin.temple.edu/undergraduate/academic-policies/academic-residency-requirements>).
- College Requirements
 - 90 credits within the College of Science & Technology (CST) or the College of Liberal Arts (CLA).
 - 45 Upper Level (2000+) credits within the College of Science & Technology (CST) or the College of Liberal Arts (CLA).
 - Two (2) Upper-Level (2000+) Liberal Arts courses.
 - Second (2nd) Level of a Foreign Language (1002).
- Major Requirements for Bachelor of Arts (51-56 s.h.)

At least 7 courses required for the major must be completed at Temple. At least 4 EES courses must be completed at Temple.

Code	Title	Credit Hours
Chemistry		
Select one of the following:		4
CHEM 1031 & CHEM 1033	General Chemistry I and General Chemistry Laboratory I	
CHEM 1951 & CHEM 1953	Honors General Chemical Science I and Honors Chemical Science Laboratory I (F)	
Mathematics		
MATH 1041 or MATH 1941	Calculus I Honors Calculus I	4
Select one of the following:		4
MATH 1044	Introduction to Probability and Statistics for the Life Sciences	

MATH 1042	Calculus II	
MATH 1942	Honors Calculus II	
Physics		
Select one of the following:		4
PHYS 1061	Elementary Classical Physics I	
PHYS 1961	Honors Elementary Classical Physics I (F)	
PHYS 2021	General Physics I	
PHYS 2921	Honors General Physics I (F)	
Earth & Environmental Science		
EES 2001	Physical Geology	4
EES 2011	Mineralogy I (F)	4
Select one EES course between 3020-3025:		4
EES 3021	Groundwater Hydrology (F)	
EES 3025	Physical Hydrology (S)	
Earth & Environmental Science Electives ¹		
Five EES electives 2002 or above		15-20
Science Foundation Electives		
Select two of the following:		8
BIOL 1111	Introduction to Organismal Biology	
or BIOL 1911	Honors Introduction to Organismal Biology	
BIOL 2112	Introduction to Cellular and Molecular Biology	
or BIOL 2912	Honors Introduction to Cellular and Molecular Biology	
CHEM 1032	General Chemistry II	
& CHEM 1034	and General Chemistry Laboratory II	
or CHEM 1952	Honors General Chemical Science II	
& CHEM 1954	and Honors Chemical Science Laboratory II	
CHEM 2201	Organic Chemistry I	
& CHEM 2203	and Organic Chemistry Laboratory I	
or CHEM 2921	Organic Chemistry for Honors I	
& CHEM 2923	and Organic Honors Laboratory I	
PHYS 1062	Elementary Classical Physics II	
or PHYS 1962	Honors Elementary Classical Physics II	
or PHYS 2022	General Physics II	
or PHYS 2922	Honors General Physics II	
Total Credit Hours		51-56

Code	Title	Credit Hours
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(F) - Fall only course

(S) - Spring only course

¹ Earth & Environmental Science electives must be 3 or 4 credit courses above 2001, and at least two of the Earth & Environmental Science electives must be writing-intensive courses. One of the five EES elective courses can be outside of the department with faculty advisor approval.

Calculation of Major GPA

Courses listed under the major requirements for the degree will be included in the calculation of the major GPA. Courses that could not apply toward the major as an elective or required course would not be counted in the calculation of the major GPA. This would include CHEM 1027, for example.

Senior Research Project

Students whose cumulative GPA is at least 3.25 at the end of the first semester of their junior year are eligible to undertake a senior research project. In the second semester of their junior year, students must select a faculty research advisor and, with the advisor, prepare a written research proposal. After the research advisor and the undergraduate Earth & Environmental Science advisor approve the proposal, the student may register for up to four (4) hours of EES 4082 Individual Study Program for a grade. Additional credits may be offered in subsequent semesters, but only for Credit/No-Credit

(CR/NC), to carry out the research project. Normally, the project will involve field or laboratory work in the summer between the junior and senior years and lead to presentation of the results at a departmental seminar.

Distinction in Major

To graduate with distinction in the major, students are required to achieve a 3.5 GPA in EES and Upper Level Science Electives for the major. In addition, a student graduating with distinction has no grade below C in the remaining courses required for the major.

Suggested Academic Plan

Bachelor of Arts in Geology

Requirements for New Students starting in the 2018-2019 Academic Year

Year 1		Credit Hours
Fall		
EES 2001	Physical Geology	4
MATH 1041 or 1941	Calculus I	4
General Education/Elective Credits		7
Term Credit Hours		15
Spring		
Select one of the following:		4
CHEM 1031 & CHEM 1033	General Chemistry I	
CHEM 1951 & CHEM 1953	Honors General Chemical Science I (F)	
Select one of the following:		4
MATH 1044	Introduction to Probability and Statistics for the Life Sciences	
MATH 1042	Calculus II	
MATH 1942	Honors Calculus II	
General Education/Elective Credits		8
Term Credit Hours		16
Year 2		
Fall		
EES 2011	Mineralogy I (F)	4
Select one of the following:		4
PHYS 1061	Elementary Classical Physics I	
PHYS 1961	Honors Elementary Classical Physics I (F)	
PHYS 2021	General Physics I	
PHYS 2921	Honors General Physics I (F)	
General Education/Elective Credits		7
Term Credit Hours		15
Spring		
Earth & Environmental Science Elective (see Requirements page)		4
General Education/Elective Credits		11
Term Credit Hours		15
Year 3		
Fall		
Select one EES course between 3020-3025:		4
EES 3021	Groundwater Hydrology (F)	
EES 3025	Physical Hydrology (S)	
Science Foundation Elective (see Requirements page)		4
General Education/Elective Credits		8
Term Credit Hours		16
Spring		
Earth & Environmental Science Elective [WI] (see Requirements page)		4

Science Foundation Elective (see Requirements page)	4
General Education/Elective Credits	7
Term Credit Hours	15
Year 4	
Fall	
Earth & Environmental Science Elective (see Requirements page)	4
General Education/Elective Credits	12
Term Credit Hours	16
Spring	
Earth & Environmental Science Elective [WI] (see Requirements page)	4
Earth & Environmental Science Elective (see Requirements page)	4
General Education/Elective Credits	7
Term Credit Hours	15
Total Credit Hours:	123

Code	Title	Credit Hours
(F) - Fall only course		
(S) - Spring only course		