



Geophysics - BS
College of Arts and Sciences
 Suzanne Rosser | crosser@tamu.edu
geoweb.tamu.edu

2023-2024 Transfer Course Sheet
Minimum GPA | 2.5
Minimum Transferable Hours | 24
Second-Choice Major Eligible | YES

Required Coursework for Admission

Course Name	Hrs.	TCCNS	TAMU
Engineering Math I	4	MATH 2413	MATH 151
Engineering Math II	4	MATH 2414	MATH 152
Chemistry I	4	CHEM 1411 (1311/1111)	CHEM 119
Physical Geology	4	GEOL 1403	GEOL 101/102

Recommended Coursework for Admission

Course Name	Hrs.	TCCNS	TAMU
Mechanics	4	PHYS 2425	PHYS 206/226
Electricity & Magnetism	4	PHYS 2426	PHYS 207/227
Historical Geology	4	GEOL 1404	GEOL 106
Engineering Math III	4	MATH 2315	MATH 251

- Math courses listed should be completed with a grade of C or better.
- Must have a C average grade in the science course sequence attempted from the above list.
- Competitive applicants will have a B or better in the courses listed above.
- Students may have to complete Trigonometry and Pre-Calculus (MATH 2412) at their institution before taking MATH 2413.
- Trigonometry and Pre-Calculus are transferable courses but **will not** satisfy the Mathematics requirements in this degree plan.

The recommendations below represent what a typical TAMU student's schedule looks like during the first four semesters. If working to complete an Associate's Degree before transferring, please align your degree plan to satisfy TAMU degree requirements. You may not have to complete the coursework in the sequence below but this major requires specific coursework to be completed.

First Year

FALL SEMESTER

TCCNS	TAMU	Course Name	Hrs.
GEOL 1403	GEOL 101/102	Physical Geology	4
CHEM 1411 (1311/1111)	CHEM 119	Chemistry I	4
MATH 2413	MATH 151	Engineering Math I	4
	core.tamu.edu	Communication	3
Total			15

SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
GEOL 1404	GEOL 106	History of the Earth	4
	core.tamu.edu	Communication	3
MATH 2414	MATH 152	Engineering Math II	4
	core.tamu.edu	Government	3
Total			14

Second Year

FALL SEMESTER

TCCNS	TAMU	Course Name	Hrs.
	core.tamu.edu	Government	3
	core.tamu.edu	American History	3
PHYS 2425	PHYS 206/226	Mechanics	4
MATH 2315	MATH 251	Engineering Math III	3
Total			13

SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
	core.tamu.edu	American History	3
	core.tamu.edu	Creative Arts	3
MATH 2320	MATH 308	Differential Equations	3
PHYS 2426	PHYS 207/227	Electricity & Optics	4
Total			13

Consider taking courses that fulfill the 6 hours of [International and Cultural Diversity requirement](#) when completing the Social and Behavioral Sciences, free electives and Creative Arts requirements.



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Coursework Timeline

- Competitive applicants will have the Required coursework completed by the application deadline.
- Applicants to the summer/fall term **may be** asked to submit spring final grades, this is not a guarantee.
- Summer coursework **will not** be considered for summer/fall applicants.
- Fall coursework **will not** be considered for spring applicants.
- Applicants to the spring term should have the Required coursework completed by the end of Summer II semester before applying.

Additional Transfer Requirements

- The Department of Geology & Geophysics is looking for students who are interested in pursuing our degree as a focus. Students should indicate our department as the primary major they are interested in if they wish to be admitted. The essay and supporting materials should reflect that the student is interested in pursuing our degree.
- Meeting minimum requirements **DOES NOT** guarantee admission. The entire record is reviewed for consistency in coursework and grades.

Additional Information

- Applicants should be serious about earning a degree in Geophysics.
- Transfer applicants are instructed **NOT** to accept transfer admission to any major with the expectation of later applying for an on-campus change of major.

Career & Educational Opportunities

Similar to Geology, Geophysics emphasizes the development of sound scientific skills and the application of these skills to the study of rocks, minerals, fossils, structures, landforms, and other geologic phenomena. The first two years of the B.S. program in Geophysics are identical to the B.S. in Geology, providing students with the basics of geology and geophysics and the allied fields of chemistry, physics, mathematics, and computer science. Upper level coursework focuses on two tracks and includes advanced study in either environmental geophysics or petroleum geophysics.

The **Environmental Geophysics** track focuses the geophysics degree on traditional and emerging methods used for hydrogeological, structural and stratigraphic characterization of the uppermost 100 meters, with applications to shallow resource and groundwater assessment and the solution of environmental and engineering problems. Students completing the Environmental track of the BS in Geophysics are prepared for graduate school, or for employment in the environmental industry. Environmental geophysicists typically work as independent environmental consultants or with industrial corporation or government agencies.

The **Petroleum Geophysics** track prepares students for eventual employment in the petroleum industry, in which reflection seismology is the primary subsurface exploration tool. Students in this track will supplement their background in seismic theory and with electives that focus on subsurface structures and processes and industry techniques. The petroleum geophysics track is intended to prepare students for graduate study, as well as provide training for those who may be interested in service jobs in the oil and gas industry between their undergraduate and graduate education. For more information please visit careercenter.tamu.edu.

Transfer Course Sheet Notes

1. Admission preference is given to applicants with the highest GPA and the most appropriate courses completed.
2. Transfer applicants are encouraged to complete [University Core Curriculum](#) coursework found in the [Undergraduate Catalog](#) unless specified above.
3. This Transfer Course Sheet was supported in a partnership between the Office of Admissions and the College of Arts and Sciences at Texas A&M University with the Undergraduate Catalog having the most extant and definitive information.