



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 & Chemistry II or	8	CHEM 1411 (1311/1111) & CHEM 1412 (1312/1112)	CHEM 119 CHEM 120
Physics Mechanics & Physics Electricity or	8	PHYS 2425 (2325/2125) & PHYS 2426 (2326/2126)	PHYS 206 & PHYS 226 & PHYS 207 & PHYS 227
Biology I & Biology II	8	BIOL 1406 & BIOL 1407	BIOL 111 & BIOL 112

- 8 hours of required science from the above list must be completed in a sequence.
- 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 1445	OCNG 251/252	Oceanography & lab	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.
	core.tamu.edu	Government	3
CHEM 1412 (1312/1112)	CHEM 120	Chemistry II	4
MATH 2414	MATH 152	Engineering Math II	4
PHYS 2425 (2325/2125)	PHYS 206/226	Mechanics	4
Total			15

Second Year

FALL SEMESTER

TCCNS	TAMU	Course Name	Hrs.
BIOL 1406 (1306/1106)	BIOL 111	Biology I	4
	core.tamu.edu	Communication	3
	core.tamu.edu	American History	3
MATH 2415	MATH 251	Engineering Math III	3
Total			13

SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
BIOL 1407 (1307/1107)	BIOL 112	Biology II	4
PHYS 2426	PHYS 207/227	Electricity and Optics	4
GEOG 1302	GEOG 201	Introduction to Human Geography	3
	core.tamu.edu	History or Government	3
Total			14

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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2022-2023 Transfer Course Sheet
Minimum GPA | 2.5
Minimum Transferable Hours | 24
Second-Choice Major Eligible | YES

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 Oceanography 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 Oceanography.
- 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

The BS in Oceanography provides students with an interdisciplinary education and training in one of three areas of ocean science: Ocean Observing Systems and Technology (OOST), Ocean Climate (OC), and Marine Ecosystem Science and Health (MESH). All students will gain skill in handling, evaluating, and analyzing large datasets.

The exploration and exploitation of energy resources in deeper waters offshore (e.g. Gulf of Mexico), the continued growth of human populations along the coast, and growing efforts to predict and mitigate coastal hazards (e.g. hurricanes, tsunami, oil spills, and harmful algal blooms) is driving an increase in the need and opportunities for well-trained ocean scientists. The BS in Oceanography curriculum: 1) provides students with an interdisciplinary understanding of the oceans and the processes affecting them for use in careers in marine science or other related fields; 2) provides students with the skills to retrieve, evaluate, and analyze large oceanographic datasets such as those generated from long term oceanographic studies and observing systems; and 3) emphasizes critical thinking and problem solving skills.

Students planning on attending graduate school are encouraged to also complete a minor in a STEM field. Many graduates will obtain jobs in a variety of fields including marine technical support, energy and transportation industries, insurance industries, hazard mitigation, marine operations, homeland security, oil spill response, etc. 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.