



Mechanical Engineering
 College of Engineering
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engineering.tamu.edu/mechanical

2018-2019 Transfer Course Sheet
 Minimum GPA | 3.25
 Minimum Transferable Hours | 24
 Maximum Transferable Hours | N/A
 Second-Choice Major Eligible | NO

Required Coursework for Admission

TAMU Course Name	TAMU Hrs.	TCCNS	TAMU Course Number
Engineering Math I	4	MATH 2413	MATH 151
Engineering Math II	4	MATH 2414	MATH 152
*Physics for Engineers I	3	PHYS 2425 or 2325	PHYS 206 (See Note)
*Physics for Engineers II	3	PHYS 2426 or 2326	PHYS 207 (See Note)
Chemistry for Engineers and Lab	4	CHEM 1410 or 1412	CHEM 107/117 or CHEM 102/112
Composition and Rhetoric	3	ENGL 1301 or ENGL 1302	ENGL 103 or ENGL 104

The College of Engineering has updated degree requirements for courses in Physics

PHYS 2425 (4 Hours) or 2325+2125 (4 Hours) = PHYS 218 (4 Hours) **Effective for students entering the College of Engineering IN OR BEFORE Spring 2018*
 PHYS 2425 (4 Hours) or PHYS 2325 (3 Hours) = PHYS 206 (3 Hours) **Effective for students entering the College of Engineering AFTER Spring 2018*

PHYS 2426 (4 Hours) or 2326+2126 (4 Hours) = PHYS 208 (4 Hours) **Effective for students entering the College of Engineering IN OR BEFORE Spring 2018*
 PHYS 2426 (4 Hours) or PHYS 2326 (3 Hours) = PHYS 207 (3 Hours) **Effective for students entering the College of Engineering AFTER Spring 2018*

Transfer applicants admitted to Texas A&M Engineering with credit for PHYS 2425 (2325/2125) and PHYS 2426 (2326/2126) will only receive 6 credit hours towards their Engineering bachelor's degree if entering AFTER Spring 2018. For additional information regarding this degree update, please contact the advisor list above.

- Courses listed should be completed with a grade of B or better.
- 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.
- PHYS 207 **must** be completed or in progress at the time of application.
- Students attending an institution without an equivalent to CHEM 107/117 can transfer an equivalent to Fundamentals to Chemistry II (CHEM 102/112 – CHEM 1412) to fulfill the CHEM 107/117 requirement.

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.
	core.tamu.edu	American History	3
CHEM 1411 (1311/1111) CHEM 1410	CHEM 101/111 or CHEM 107/117	Chemistry I	4
MATH 2413	MATH 151	Engineering Math I	4
ENGL 1301	ENGL 103	Composition & Rhetoric*	3
Total			14

SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
PHYS 2425 (2325)	PHYS 206	Physics for Engineers I**	3
CHEM 1412 (1312/1112)	CHEM 102/112	Chemistry II***	4
MATH 2414	MATH 152	Engineering Math II	4
	core.tamu.edu	American History	3
Total			14

*Either ENGL 1301 or ENGL 1302 will fulfill three of the six required credit hours of Communication requirements.

**You may take the four credit version of PHYS but only three credits will be applied.

***Students that take CHEM 107/117 (CHEM 1410) do not need to take CHEM 101/111 and CHEM 102/112.



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Second Year

FALL SEMESTER

TCCNS	TAMU	Course Name	Hrs.
MATH 2415	MATH 253	Engineering Math III*	3
PHYS 2426 (2326)	PHYS 207	Physics for Engineers II	3
ENGL 2311	ENGL 210	Technical Business Writing	3
GOVT 2305	POLS 206	American National Government	3
Total			12

SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
	MATH 308	Differential Equations	3
	core.tamu.edu	Social & Behavioral Sciences or Creative Arts*	3
	core.tamu.edu	Creative Arts*	3
GOVT 2306	POLS 207	State & Local Government	3
Total			12

*Engineering Math III should be completed with a grade of 'B' or better. MATH 253 is an acceptable substitution for MATH 251. It is recommended that applicants complete the calculus sequence to fulfill the MATH 151, 152, and 251 degree requirements.

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

Coursework Timeline

- Competitive applicants will have the required coursework completed or in progress by the application deadline.
- Applicants to the summer/fall term **may be** asked to submit spring final grades, this is not a guarantee of admission.

Additional Transfer Requirements

- The Department of Mechanical Engineering is looking for students who are interested in pursuing our degree as a focus. Students should indicate our department as the primary major if they wish to be admitted. The essay and supporting materials should reflect that the student is interested in pursuing our degree.
- Applicant's essay **MUST** convey their understanding of and desire to pursue a Mechanical Engineering degree and planned career path.
- 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 Mechanical Engineering.
- Admission is on a competitive basis for a fixed number of places. More detailed information can be found at engineering.tamu.edu/mechanical/prospective-students
- Competitive applicants will have at least all of the Required Coursework completed and have earned a grade of 'B' or better in each of the required courses.
- Degree candidates will be required to fulfill the following [University Core Curriculum Requirements](#) to graduate: American History electives, a social and behavioral science elective, and a creative arts elective. These are options for additional coursework that your institution may offer to complete. In addition, 6 credit hours of international and cultural diversity must be satisfied.
- Prospective students should refer to the [Texas A&M Transfer Course Equivalency website](#) for common course numbers by institution.
- There are few exceptions for ENGR 102/216/217 substitutions. Transfer students should plan on taking the appropriate ENGR coursework; if exceptions are approved, students will take ENGR 289. Substitutions must be approved by the College of Engineering.

Transfer Course Sheet Notes

- Admission preference is given to applicants with the highest GPA and the most appropriate courses completed.
- Students are encouraged to complete or in progress of completing a computer programming course. Any language is acceptable; however, (in order of preference) Python, Matlab, and C++ are the preferred languages.
- Transfer applicants are encouraged to complete [University Core Curriculum](#) coursework found in the [Undergraduate Catalog](#) unless specified above.
- This Transfer Course Sheet was supported in a partnership between the Office of Admissions and the College of Engineering at Texas A&M University with the Undergraduate Catalog having the most extant and definitive information.