



Electrical Engineering
 College of Engineering
ecenundergrad@tamu.edu
 (979) 458-7298
engineering.tamu.edu/electrical

2023-2024 Transfer Course Sheet
 Minimum GPA | 3.5
 Minimum Transferable Hours | 24
 Maximum Transferable Hours | 64
 Second-Choice Major Eligible | NO

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
Physics for Engineers I	3	PHYS 2425 or 2325	PHYS 206
Physics for Engineers II	3	PHYS 2426 or 2326	PHYS 207
Chemistry for Engineering	4	CHEM 1409 or 1412*	CHEM 107/117 or CHEM 120
Composition and Rhetoric	3	ENGL 1301 or ENGL 1302	ENGL 103 or ENGL 104

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.

- Courses listed above are required to 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.
- College Algebra is a transferable course, but **will not** satisfy the Mathematics requirements in this degree plan.
- *Prospective students attending an institution without an equivalent to CHEM 107/117 can transfer an equivalent to Fundamentals of Chemistry II (CHEM 120 – 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 119 Or	Chemistry I Or	4
CHEM 1409	CHEM 107/117	Chemistry for Engineering	
MATH 2413	MATH 151	Engineering Math I	4
ENGL 1301 or ENGL 1302	ENGL 103 or ENGL 104	Composition & Rhetoric ¹	3
Total			14

SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
PHYS 2425 (2325)	PHYS 206	Physics for Engineers I ²	3
CHEM 1412 (1312/1112)	CHEM 120	Chemistry II ³	4
MATH 2414	MATH 152	Engineering Math II	4
	core.tamu.edu	American History	3
Total			14

Second Year

FALL SEMESTER

TCCNS	TAMU	Course Name	Hrs.
MATH 2415	MATH 253	Engineering Math III ⁴	3
PHYS 2426 (2326)	PHYS 207	Physics for Engineers II ²	3
	core.tamu.edu	Creative Arts ⁵	3
GOVT 2305	POLS 206	American Government	3
Total			12

SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
	MATH 308	Differential Equations	3
ENGL 2311 or SPCH 2335	ENGL 210 or COMM 243	Communication Elective	3
	core.tamu.edu	Social and Behavioral Science ⁵	3
GOVT 2306	POLS 207	State & Local Government	3
Total			12



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Notes:

1. Either ENGL 1301 or ENGL 1302 will fulfill three of the six required credit hours of Communication requirements.
2. You may take the four-credit version of PHYS but only three credits will be applied.
3. Students that take CHEM 107/117 (CHEM 1409) do not need to take CHEM 119 and CHEM 120.
4. 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.
5. Consider taking courses that fulfill the 3 hours of [International and Cultural Diversity requirement](#) when completing the Social and Behavioral Sciences and/or Creative Arts requirements.

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 recommended coursework completed by the end of Summer II semester before applying.

Additional Transfer Requirements

- Transfer applicants should have completed a full semester (spring or fall) course load of 12 transferable hours (minimum) after graduating from high school.
- The Department of Electrical and Computer Engineering 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 Electrical Engineering.
- 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.
- Applicants should be aware that time to graduation may still require 2 or more years from the initial semester at Texas A&M University

Career & Educational Opportunities

Using electricity and computers to improve people's lives is the main challenge faced by electrical engineers. They design, develop, test, and supervise the manufacture of sophisticated electrical and electronic systems, such as power generators, motors, lighting systems, computer hardware and software, advanced satellite systems, cell phone, smart appliances, etc.

In this major, elective courses may be chosen from the broad categories of controls/communications/signal processing, computer engineering, electronics, electro-physics/electro-optics/microwaves, power systems/power electronics, and biomedical imaging/sensing and systems. Electrical engineering is one of the most popular engineering fields and trends indicate that the growth in this area will continue at least into the next century. 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 Engineering at Texas A&M University with the Undergraduate Catalog having the most extant and definitive information.