



Biomedical Engineering
College of Engineering
 Eileen Hoy
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engineering.tamu.edu/biomedical

2022-2023 Transfer Course Sheet
Minimum GPA | 3.5
Minimum Transferable Hours | 28-29
Maximum Transferable Hours | 90
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
Chemistry I	4	CHEM 1411 (1311/1111)	CHEM 119
Chemistry II	4	CHEM 1412 (1312/1112)	CHEM 120
Physics for Engineers I	3	PHYS 2425 or 2325	PHYS 206
Physics for Engineers II	3	PHYS 2426 or 2326	PHYS 207
Programming course	3-4	Any language	CSC 110/111/120/121
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.
- All required coursework must be completed with a grade of C 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.
- Applicants for FALL: Physics 207 **must be completed or in progress** at the time of the application deadline.
- Applicants for SPRING: Physics 207 **must be completed** at the time of the application deadline.
- GPA in all courses listed above must be a minimum of 3.5 and the cumulative must be a minimum of 3.5 GPA for admission consideration.
- The course requirements and prerequisites for this major generally require students to be enrolled in the major for three years, regardless of the number of hours completed at the time of admission.

The recommendations below represent what a TAMU student's schedule may look like during the first four semesters minus the TAMU College of Engineering courses. If working to complete an Associate's Degree before transferring, work with your current academic advisor to try and align your degree plan with TAMU degree requirements to the extent possible.

First Year

FALL SEMESTER

TCCNS	TAMU	Course Name	Hrs.
	core.tamu.edu	American History	3
CHEM 1411 (1311/1111)	CHEM 119	Chemistry I	4
MATH 2413	MATH 151	Engineering Math I	4
ENGL 1301 or 1302	ENGL 103 or 104	Composition & Rhetoric ¹	3
Total			14

SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
	core.tamu.edu	American History	3
CHEM 1412 (1312/1112)	CHEM 120	Chemistry II	4
MATH 2414	MATH 152	Engineering Math II	4
	core.tamu.edu	Social & Behavioral Sciences ²	3
Total			14

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

2. Consider taking courses that fulfill the 3 hours of [International and Cultural Diversity](#) or [Cultural Discourse](#) requirement when completing the Social and Behavioral Sciences, Language, Philosophy & Culture, and/or Creative Arts requirements

Second Year

FALL SEMESTER

TCCNS	TAMU	Course Name	Hrs.
MATH 2415	MATH 253	Engineering Math III	4
PHYS 2425 (2325)	PHYS 206	Physics for Engineers ³	3
GOVT 2305	POLS 206	American Government	3
CHEM 2423	CHEM 227	Organic Chemistry	4
Total			14

SPRING SEMESTER

TCCNS	TAMU	Course Name	Hrs.
	MATH 308	Differential Equation	4
PHYS 2426 (2326)	PHYS 207	Physics for Engineers ³	3
ENGL 2311	ENGL 210	Technical Business Writing	3
GOVT 2306	POLS 207	State & Local Government	3
Total			13

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



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Coursework Timeline

- Competitive applicants will have the Required Coursework completed by the application deadline.
- Applicants to the fall term **may be** asked to submit spring final grades.
- Summer coursework **may** be considered for fall applicants.
- Fall coursework **may** be considered for spring applicants.

Additional Transfer Requirements

- The Department of Biomedical Engineering is looking for students who are interested in pursuing our degree as a focus. Students should indicate our department as the primary major of interest. The essay and supporting materials should reflect that the student is interested in pursuing our degree.
- Meeting minimum requirements **does not** guarantee admission. The review process is holistic, based on academic records and essays.

Career & Educational Opportunities

Biomedical engineering is a diverse, multidisciplinary field that uses engineering, science, and technology to solve medical problems and other problems involving living systems. Biomedical engineers design artificial hearts and hips; with engineers in other fields, they develop and maintain the systems that keep astronauts alive during spaceflight; they manage the diagnostic instruments that monitor patients in emergency rooms and during surgery, and they have the option of going directly into medical school. The program in biomedical engineering is designed to prepare students to work in concert with physicians and life scientists to solve a wide variety of medical and biological problems. 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 2022-2023 Undergraduate Catalog having the most extant and definitive information.