



AS – Mechanical Engineering to BS – Mechanical Engineering Technology 2024-2025 Transfer Pathway



AS Degree Requirements							
McLennan Community College (MCC)							
MCC	TAMUCT	Course Name	SCH	MCC	TAMUCT	Course Name	SCH
ENGR 1201	ENGR 1201	Introduction to Engineering	2	PHYS 2426	PHYS 1402	University Physics II	4
ENGR 1304	ENGT Elective	Engineering Graphics I	3	MATH 2415	CORE 090	Calculus III	4
MATH 2413	CORE 020	Calculus I	4	CORE 040	CORE 040	Language, Philosophy, and Culture Core	3
ENGL 2311	CORE 010	Technical & Business Writing	3	ENGR 2302	ENGR 2302	Engineering Mechanics II - Dynamics	3
CORE 010	CORE 010	Communication Core	3	ENGR 2305	ENGR 2305	Electrical Circuits I (Lecture)	3
ENGR 2304	ENGT Elective	Programming for Engineers	3	ENGR 2105	ENGR 2105	Electrical Circuits I (Laboratory)	1
PHYS 2425	CORE 030/ PHYS 1401	University Physics I	4	CHEM 1411	CORE 030/ CHEM 1411	General Chemistry I	4
MATH 2414	CORE 090	Calculus II	4	MATH 2320	ENGT Elective	Differential Equations	3
CORE 050	CORE 050	Creative Arts Core	3	CORE 080	CORE 080	Social and Behavioral Sciences Core	3
ENGR 2301	ENGR 2301	Engineering Mechanics I - Statics	3				
Subtotal							60

Additional Lower-Level Degree Requirements			
McLennan Community College (MCC) or Texas A&M University – Central Texas (TAMUCT)			
MCC	TAMUCT	Course Name	SCH
CORE 060 ¹	CORE 060	American History Core	3
CORE 060 ¹	CORE 060	American History Core	3
CORE 070 ¹	CORE 070	Government/Political Science Core	3
CORE 070 ¹	CORE 070	Government/Political Science Core	3
ENGR 2332 or ENGT 2307 ¹	ENGR 2332 or ENGT 2307	Mechanics of Materials or Engineering Materials I	3
Subtotal			15

Upper-Level Degree Requirements					
Texas A&M University - Central Texas (TAMUCT)					
TAMUCT	Course Name	SCH	TAMUCT	Course Name	SCH
ENGT 3305	Computer Aided Problem Solving	3	ENGT 4325	Senior Design A	3
ENGT 3306	Decision Making Models	3	ENGT 4307	Engineering Economics	3
ENGT 3310	Applied Thermodynamics	3	ENGT 4421	Solid Modeling	4
ENGT 3311	Fluid Mechanics	3	ENGT 3320	Quality Control Technology	3
ENGT 3302	Manufacturing Processes	3	ENGT 4326	Senior Design B	3
ENGT 3312	Heat Transfer	3	ENGT 4422	Electrical Power and Controls	4
ENGT 3213	Thermal Fluids Lab	2	Upper Level ENGT Elective ²	Upper Level ENGT Elective	3
ENGT 3415	Material Science	4			
Subtotal					47
Total					122

Notes/Comments

TAMUCT offers upper-level courses (3xxx-5xxx labeled courses), all lower-level courses (1xxx-2xxx labeled courses) will need to be completed at MCC. A minimum of 120 semester credit hours is required for all baccalaureate degrees. Pathways may exceed 120 semester credit hours as some courses necessary for the associate degree are transferable but not applicable to the baccalaureate degree. For help with pathway planning, students should speak with an [academic advisor](#) or [enrollment specialist](#). This pathway is intended for planning and visualization purposes only.

- The AS does not meet all the course requirements for the bachelor's degree. Students will need to complete the remaining lower-level courses at MCC. It is recommended to seek guidance from a [financial aid advisor](#) regarding the consortium agreement process.
- ENGT Elective courses consists of the following: ENGT Upper-Level Electives, MATH 3306, MATH 3332, MATH 3360, MATH 3370, BUSI 3311, MGMT 3350 and MGMT 4370. Other ENGT electives may be added with approval from an ENGT advisor.