

AS – Mechanical Engineering to BS – Mechanical Engineering Technology 2021-2022 Transfer Pathway

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

Additional Lower-Level or Upper-Level Degree Requirements			
McLennan Community College or Texas A&M University – Central Texas			
McLennan Community College	Texas A&M University - Central Texas	Course Name	SCH
CORE 010 ¹	CORE 010	Communications Core Selection	3
CORE 060 ¹	CORE 060	American History Core Selection	3
CORE 060 ¹	CORE 060	American History Core Selection	3
CORE 070 ¹	CORE 070	Government/Political Science Core Selection	3
CORE 070 ¹	CORE 070	Government/Political Science Core Selection	3
ENGR 2332 or ENGT 2307 ¹	ENGR 2332 or ENGT 2307	Mechanics of Materials or Engineering Materials I	3
Any ENGT Elective ^{1,2,3}	Any ENGT Elective	Any ENGT Elective	2
Subtotal			20

Upper-Level Degree Requirements					
Texas A&M University - Central Texas					
Texas A&M University - Central Texas	Course Name	SCH	Texas A&M University - Central Texas	Course Name	SCH
ENGT 3305	Computer Aided Problem Solving	3	ENGT 3415	Material Science	4
ENGT 3306	Engineering Ethics	3	ENGT 4325	Senior Design A	3
ENGT 3310	Applied Thermodynamics	3	ENGT 4307	Engineering Economics	3
ENGT 3311	Fluid Mechanics	3	ENGT 4421	Solid Modeling	4
ENGT 3302	Manufacturing Processes	3	ENGT 3320	Quality Control Technology	3
ENGT 3312	Heat Transfer	3	ENGT 4326	Senior Design B	3
ENGT 3213	Thermal Fluid Lab	2	ENGT 4422	Electrical Power and Controls	4
Subtotal				44	
Total				124	

Notes/Comments

The following Pathway Plan is suggested for full-time students. Part-time student will need more time to complete this pathway. For assistance with pathway planning, students should schedule an appointment with an academic advisor. This guide is for planning and visualization purposes only.

1. Not all Degree Requirement courses are completed with the AS. Student will need to complete these remaining lower-level courses at the community college. Please consult a TAMUCT financial aid counselor regarding the consortium agreement process.
2. Any-level electives may be taken at either at Texas A&M University-Central Texas or another institution. Please consult an academic advisor prior to selecting any-level electives.
3. Any ENGT Elective is defined as the following courses: MATH 2320, MATH 3306, MATH 3332, MATH 3360, MATH 3370, BUSI 3311, MGMT 3301 or MGMT 4370. Other ENGT electives can be added with approval from ENGT advisor.