

BAYLOR BOUND MAJOR ACADEMIC PLANNER

Bachelor of Science in Mechanical Engineering - Mechanical Engineering major

A Suggested Sequence of Required Courses for a McLennan Community College transfer student (2023-2024 Catalog)

Freshman Year									
Fall					Spring				
MCC	BU	Title	Hours	MCC	BU	Title	Hours		
ENGR 1201	EGR 1301	Intro to Engineering	2	ENGR 2304	EGR 1302	Engineering Analysis	3		
MATH 2413	MTH 1321	Calculus I	4	MATH 2414	MTH 1322	Calculus II	4		
CHEM 1411 ^o	CHE 1301	Chemistry I	4	PHYS 2425	PHY 1420	General Physics I	4		
PHIL 1316	REL 1310	Christian Scriptures	3	PHIL 1317	REL 1350	Christian Heritage	3		
ENGL 1301 [¶]	ENG 1310	Writing & Academic Inquiry	3	PHED 11XX	LF 11XX	Lifetime Fitness	1		
			<u>16</u>				<u>15</u>		

Summer Term									
Summer I					Summer II				
MCC	BU	Title	Hours	MCC	BU	Title	Hours		
FLC Equivalent ^o	FLC	Foreign Language / Culture	3-4						
			<u>3-4</u>						

Sophomore Year									
Fall					Spring				
MCC	BU	Title	Hours	MCC	BU	Title	Hours		
ENGR 2301	ME 2320	Statics	3	ENGR 2302	ME 2321	Dynamics	3		
MATH 2415	MTH 2321	Calculus III	4	ENGR 2305*	ELC 2320	Circuits	3		
PHYS 2426	PHY 1430	General Physics II	4	MATH 2320*	MTH 3325	Ordinary Differential Equations	3		
ENGR 2308*	ECO 2108	Engineering Economics	3	GOVT 2305**	PSC 1387	US Const, Interp, Am Pol Exp	3		
MATH 2318	MTH 2311	Linear Algebra	3	PHED 11XX	LF 11XX	Lifetime Fitness	1		
			<u>17</u>	ENGL 2311*	PWR 3300	Technical Writing	3		
							<u>16</u>		

Junior Year									
Fall					Spring				
MCC	BU	Title	Hours	MCC	BU	Title	Hours		
	CHA 1088	Chapel	0		ME 3323	Machine Design	3		
	EGR 3380	Engineering Design I	3		ME 3322	Materials & Manufacturing	3		
	ME 3320	Strength of Materials	3		ME 3321	Fluid Dynamics	3		
	ME 4327	Numerical Methods	3		ME 3420	Instrumentation & Measurements	4		
	STA 3381	Statistics	3		GTX 2301	Ancient Great Texts	3		
	ME 2345	Thermodynamics	3						
	EGR 1101	New Student Experience	1						
			<u>16</u>				<u>16</u>		

Senior Year									
Fall					Spring				
MCC	BU	Title	Hours	MCC	BU	Title	Hours		
	ME 4325	Dynamic Systems	3		EGR 4390	Engineering Design II	3		
	ME 4345	Heat Transfer	3		EGR 3305	Engineering Ethics	3		
	ME 43XX	ME Elective	3		ELC 4335	Systems Modeling & Controls	3		
	ME 3345	Advanced Thermodynamics	3		ME 43XX	ME Elective	3		
	ME 3145	Thermo/Fluids Lab	1		ME 43XX	ME Elective	3		
	ME 3122	Materials & Manufacturing Lab	1		ME 2170	CAD Lab	1		
			<u>14</u>				<u>16</u>		

Notes about major requirements:

- Students must earn a 'B' or higher in ENGR 1201 and EGR 2304, and 'C' or higher in math courses completed at MCC.
- Students must earn a minimum 3.0 cumulative GPA at MCC to transfer to Baylor and declare an engineering major.
- Students are encouraged to complete full course sequences at one institution when applicable.

^oChoose either CHE 1411 or CHE 1409

^aChoose either Foreign Language through second-level proficiency (1412 at MCC) or choose 1 culture course (see reverse for details)

[¶]Choose either ENGL 1301 or ENGL 1302

^{*}Choose either GOVT 2305 or GOVT 2306 or ENGL 2321 or ENGL 2322

* MCC course will be petitioned to fulfill corresponding Baylor course.

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Foreign Language / Culture Requirement

The Foreign Language and Culture (FLC) requirement can be satisfied by any of the following means:

1. Completing second-level proficiency (1302/1412 or higher) in a Foreign or Classical Language (minimum 3 hours)
 - a. ARB, CHI, FRE, GER, ITA, JPN, KOR, POR, RUS, SPA, SWA, GKC, HEB, LAT
2. Completing second-level proficiency (1406 or higher) in American Sign Language (minimum 3 hours)
 - a. CSD
3. Taking 3 hours of a Culture course included on the Foreign Language and Culture Distribution List for ECS in the Undergraduate Catalog.

Foreign Language / Culture Distribution List for engineering Programs

MCC Course	BU Course	Course Title
ANTH 2346	ANT 1305	Introduction to Anthropology
FREN 2312	FRE 2320	Passport to the French-Speaking World
SPAN 2312	SPA 2320	Exploring the Spanish-Speaking World