

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 (2016-2017 Catalog)

Freshman Year											
Fall					Spring						
MCC	BU	Title	Hours	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	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 1302	Thinking & Writing	3	PHED 11XX	LF 11XX	Lifetime Fitness	1				
			16				15				

Summer Term											
Summer I					Summer II						
MCC	BU	Title	Hours	MCC	BU	Title	Hours	MCC	BU	Title	Hours
FL 1411	FL 1401	Foreign Language, 1st Level	4	FL 1412	FL 1402	Foreign Language, 2nd Level	4				
			4				4				

Sophomore Year											
Fall					Spring						
MCC	BU	Title	Hours	MCC	BU	Title	Hours	MCC	BU	Title	Hours
ENGR 2401	ME 2320	Statics	4	ENGR 2402	ME 2321	Dynamics	4				
MATH 2415*	MTH 2321	Calculus III	4	ENGR 2305*	ELC 2330	Circuits	3				
PHYS 2426*	PHY 1430	General Physics II	4	ENGR 2105*	ELC 2130	Circuits Lab	1				
ENGR 2308*	ECO 3308	Engineering Economics	3	MATH 2320*	MTH 3325	Ordinary Differential Equations	3				
MATH 2318*	MTH 2311	Linear Algebra	3	GOVT 2305*	PSC 2302	American National Government	3				
			18	ENGL 2321**	ENG 2301	British Literature	3				
			18	PHED 11XX	LF 11XX	Lifetime Fitness	1				
			18				18				

Junior Year											
Fall					Spring						
MCC	BU	Title	Hours	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 3122	Materials & Manufacturing Lab	1				
	MTH 3326	Partial Differential Equations	3		ME 3321	Fluid Dynamics	3				
	STA 3381	Statistics	3		ME 3420	Instrumentation & Measurements	4				
	ME 2345	Thermodynamics	3		GTX 2301	Ancient Great Texts	3				
			15				17				

Senior Year											
Fall					Spring						
MCC	BU	Title	Hours	MCC	BU	Title	Hours	MCC	BU	Title	Hours
	ME 4325	Dynamic Systems	3		EGR 4390	Engineering Design II	3				
	ELC 4335	Systems Modeling & Controls	3		EGR 3305	Engineering Ethics	3				
	ME 4345	Heat Transfer	3		ENG 3300	Technical Writing	3				
	ME 43XX	ME Elective	3		ME 43XX	ME Elective	3				
	ME 3345	Advanced Thermodynamics	3		ME 43XX	ME Elective	3				
	LF 11XX	Lifetime Fitness	1				15				
			16				15				

Notes about major requirements:

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

** Other options to fulfill this requirement from MCC include ENGL 2322, 2326, 2327, 2328, 2331, 2332, 2333.

- Depending on math placement, students may need to start at MCC with Pre-Calculus (MATH 2412), which would mean completing Calculus 2 (MATH 2414) during the summer.
- Students must earn a B or higher in engineering and math courses completed at MCC.
- Students must earn a 3.25 cumulative GPA at MCC to declare an engineering major at Baylor.
- Students are encouraged to complete full course sequences at one institution when applicable.

- For more information, see the Baylor Undergraduate Catalog.