

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	
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	
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	
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	
				PHED 11XX	LF 11XX	Lifetime Fitness	1	
							18	
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 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	
	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					
			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.