

# BAYLOR BOUND MAJOR ACADEMIC PLANNER

<b>Bachelor of Science in Engineering - Engineering major</b>									
<i>A Suggested Sequence of Required Courses for a McLemman Community College transfer student (2023-2024 Catalog)</i>									
<b>Freshman Year</b>									
<b>Fall</b>				<b>Spring</b>					
	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 <sup>1</sup>	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 <sup>2</sup>	ENG 1310	Writing & Academic Inquiry	3	GOVT 2305 <sup>3*</sup>	PSC 1387	US Const, Interp, Am Pol Exp	3		
			16				17		
<b>Summer Term</b>									
<b>Summer I</b>				<b>Summer II</b>					
	MCC	BU	Title	Hours		MCC	BU	Title	Hours
	FLC Equivalent <sup>4</sup>	FLC	Foreign Language / Culture	3-4					
				3-4					
<b>Sophomore Year</b>									
<b>Fall</b>				<b>Spring</b>					
	MCC	BU	Title	Hours		MCC	BU	Title	Hours
ENGR 2301	ME 2320		Statics	3	ENGR 2302	ME 2321		Dynamics	3
ENGL 2311*	PWR 3300		Technical Writing	3	ENGR 2305	ELC 2330		Circuits	3
MATH 2415	MTH 2321		Calculus III	4	ENGR 2105	ELC 2130		Circuits Lab	1
PHYS 2426	PHY 1430		General Physics II	4	ENGR 2306/2106	ELC 2337/2137		Digital Logic Design & Lab	4
MATH 2318	MTH 2311		Linear Algebra	3	ENGR 2308*	EGR 2108		Engineering Economics	3
				17	MATH 2320*	MTH 3325		Ordinary Differential Equations	3
									17
<b>Junior Year</b>									
<b>Fall</b>				<b>Spring</b>					
	MCC	BU	Title	Hours		MCC	BU	Title	Hours
		CHA 1088	Chapel	0			ELC 3335	Signals & Systems	3
		EGR #1	Engineering Elective #1	3			EGR #2	Engineering Elective #2	3
		CONC #1	Concentration #1	3			EGR 3380	Engineering Design I	3
		ME 2345	Thermodynamics	3			CONC #3	Concentration #3	3
		CONC #2	Concentration #2	3			LF 11XX	Lifetime Fitness	1
		STA 3381	Probability & Statistics	3					
		EGR 1101	New Student Experience	1					
				16					13
<b>Senior Year</b>									
<b>Fall</b>				<b>Spring</b>					
	MCC	BU	Title	Hours		MCC	BU	Title	Hours
		ME 3420	Instrumentation & Measurements	4			GTX 2301	Ancient Great Texts	3
		EGR #3	Engineering Elective #3	3			CONC #5	Concentration #5	3
		MTH/SCI	Approved MTH/Science Elective	3			CONC #6	Concentration #6	3
		CONC #4	Concentration #4	3			EGR 4390	Engineering Design II	3
		LF 11XX	Lifetime Fitness	1			EGR 3305	Engineering Ethics	3
				14					15

**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.
- Students majoring in Engineering must either declare one of the concentrations below or any Baylor minor (other than Mathematics or Engineering). Each concentration or minor will require between 18-21 hours, plus an additional 12 hours of upper-level engineering electives. These requirements are built into the 4-year degree plan above, and specific course requirements can be viewed at [www.ecs.baylor.edu/advising](http://www.ecs.baylor.edu/advising).

- Biomedical
- Environmental
- Humanitarian Engineering

<sup>1</sup>Choose either CHE 1411 or CHE 1409

<sup>2</sup>Choose either Foreign Language through second-level proficiency (1412 at MCC) or choose 1 culture course (see reverse for details)

<sup>3</sup>Choose either ENGL 1301 or ENGL 1302

<sup>4</sup>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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<b>Foreign Language / Culture Requirement</b>		
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.		
<b>Foreign Language / Culture Distribution List for engineering Programs</b>		
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