

BAYLOR BOUND MAJOR ACADEMIC PLANNER

Bachelor of Science in Electrical & Computer Engineering - Electrical & Computer 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 ⁱⁱ	ENG 1310	Writing & Academic Inquiry	3	GOVT 2305 ^{*oo}	PSC 1387	US Const, Interp, Am Pol Exp	3	
			16				17	

Sophomore Year								
Fall				Spring				
MCC	BU	Title	Hours	MCC	BU	Title	Hours	
ENGR 2306	ELC 2337	Digital Logic	3	ENGR 2305	ELC 2330	Circuits	3	
ENGR 2106	ELC 2137	Digital Logic Lab	1	ENGR 2105	ELC 2130	Circuits Lab	1	
MATH 2415	MTH 2321	Calculus III	4	MATH 2318	MTH 2311	Linear Algebra	3	
PHYS 2426	PHY 1430	General Physics II	4	MATH 2320*	MTH 3325	Ordinary Differential Equations	3	
ENGR 2308*	EGR 2108	Engineering Economics	3	ENGL 2311*	PWR 3300	Technical Writing	3	
PHED 11XX	LF 11XX	Lifetime Fitness	1	FLC Equivalent ^o	FLC	Foreign Language / Culture	3-4	
			16				16-17	

Junior Year								
Fall				Spring				
MCC	BU	Title	Hours	MCC	BU	Title	Hours	
	CHA 1088	Chapel	0		ELC 3336	Microprocessor Systems	3	
	CSI 1430	Intro to Programming 1	4		ELC 3337	Applied Electromagnetic Fields	3	
	ELC 3314	Electronic Design	3		ELC 43XX	ECE Elective	3	
	ELC 3114	Electronic Design Lab	1		EGR 3380	Engineering Design I	3	
	ELC 3335	Signals & Systems	3		STA 3381	Statistics	3	
	GTX 2301	Ancient Great Texts	3					
	EGR 1101	New Student Experience	1					
			15				15	

Senior Year								
Fall				Spring				
MCC	BU	Title	Hours	MCC	BU	Title	Hours	
	ELC 4332	Automatic Control Systems	3		EGR 4390	Engineering Design II	3	
	ELC 4438	Embedded Systems	4		EGR 3305	Engineering Ethics	3	
	MTH 43**	MTH Elective	3		ELC 4351	Digital Signal Processing	3	
	ELC 3338	Computer Organization	3		ELC 43XX	ECE Elective	3	
	ELC 43XX	ECE Elective	3		ELC 43XX	ECE Elective	3	
			16				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.

^oChoose either CHE 1411 or CHE 1409

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

ⁱⁱChoose either ENGL 1301 or ENGL 1302

^{oo}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