

# 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 (2016-2017 Catalog)*

Freshman Year									
Fall					Spring				
MCC	BU	Title	Hours	MCC	BU	Title	Hours	MCC	BU
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		
ENGR 2406*	ELC 2337/2137	Digital Logic & Lab	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	GOVT 2305*	PSC 2302	American Constitutional Development	3		
			16				17		

Summer Term									
Summer I					Summer II				
MCC	BU	Title	Hours	MCC	BU	Title	Hours	MCC	BU
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
MATH 2318*	MTH 2311	Linear Algebra	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	CHEM 1411	CHE 1301	Chemistry I	4		
ENGR 2308*	ECO 3308	Engineering Economics	3	MATH 2320*	MTH 3325	Ordinary Differential Equations	3		
PHED 11XX	LF 11XX	Lifetime Fitness	1	ENGL 2321**	ENG 2301	British Literature	3		
			15	COSC 1320*	CSI 1336	Intro to Programming for Engineers	3		
			16				17		

Junior Year									
Fall					Spring				
MCC	BU	Title	Hours	MCC	BU	Title	Hours	MCC	BU
	CHA 1088	Chapel	0		ELC 3338	Computer Organization	3		
	ELC 3336	Microprocessor Systems	3		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		ME 2345	Thermodynamics	3		
	GTX 2301	Ancient Great Texts	3		LF 11XX	Lifetime Fitness	1		
	ENG 3300	Technical Writing	3						
			16				16		

Senior Year									
Fall					Spring				
MCC	BU	Title	Hours	MCC	BU	Title	Hours	MCC	BU
	ELC 4332	Automatic Control Systems	3		EGR 4390	Engineering Design II	3		
	STA 3381	Statistics	3		EGR 3305	Engineering Ethics	3		
	MTH 4329	Complex Variables	3		ELC 4351	Digital Signal Processing	3		
	ELC 43XX	ECE Elective	3		ELC 4438	Embedded Systems	4		
	ELC 43XX	ECE Elective	3		ELC 43XX	ECE Elective	3		
	LF 11XX	Lifetime Fitness	1						
			16				16		

**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.