BAYLOR BOUND MAJOR ACADEMIC PLANNER

Bachelor of Science in Engineering - 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
ENGR 2406*	ELC 2337/2137	Digital Logic Design & 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
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 2401	ME 2321	Dynamics	4
ENGR 2308*	ECO 3308	Engineering Economics	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
MATH 2318*	MTH 2311	Linear Algebra	3	PHED 11XX	LF 11XX	Lifetime Fitness	1
			18	ENGL 2321**	ENG 2301	British Literature	3
							16

Junior Year

Fall				Spring			
MCC	BU	Title	Hours	MCC	BU	Title	Hours
	CHA 1088	Chapel	0		ELC 4335	Systems Modeling & Controls	3
	CONC #1	Concentration #1	3		EGR #1	Engineering Elective #1	3
	CONC #2	Concentration #2	3		STA 3381	Probability & Statistics	3
	ME 2345	Thermodynamics	3		EGR 3380	Engineering Design I	3
	CONC #3	Concentration #3	3		GTX 2301	Ancient Great Texts	3
	MTH 3325	Ordinary Differential Equations	3		LF 11XX	Lifetime Fitness	1
	LF 11XX	Lifetime Fitness	1				
			16				16

Senior Year

Fall				Spring			
MCC	BU	Title	Hours	MCC	BU	Title	Hours
	ME 3420	Instrumentation & Measurements	4		EGR #3	Engineering Elective #3	3
	EGR #2	Engineering Elective #2	3		EGR #4	Engineering Elective #4	3
	MTH/SCI	Approved MTH/Science Elective	3		CONC #6	Concentration #6	3
	CONC #4	Concentration #4	3		EGR 4390	Engineering Design II	3
	CONC #5	Concentration #5	3		EGR 3305	Engineering Ethics	3
					ENG 3300	Technical Writing	3
			16				18

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.

- 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 specifc course requirements can be viewed at www.ecs.baylor.edu/advising.
  - Biomedical
  - Environmental
  - Geo-Petro
  - Humanitarian Engineering

− For more information, see the Baylor Undergraduate Catalog.

Please see reverse side for important information on general requirements.