

Proposed FOUR-YEAR DEGREE MAP 2020 - 2021 Lone Star College

First Year at Lone Star College	FALL			SPRING			SUMMER (IF APPLICABLE)			
	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours	
	MATH 2413	Calculus I	4	MATH 2414	Calculus II	4				
	CHEM 1411	General Chemistry I	4	PHYS 2425	Mechanics and Heat	4				
	ENGL 1301	Composition I	3	PHED 1164	Intro to Physical Fitness	1				
	ENGR 1201	Intro to Engineering	2	GOVT 2305	Federal Government	3				
	HIST 1301* ^{HI}	US History to 1877	3	HIST 1302* ^{HI}	US History since 1877	3				
	Fall Total Credit Hours			16	Spring Total Credit Hours			15	Summer Total Credit Hours	

Second Year at Lone Star College	FALL			SPRING			SUMMER (IF APPLICABLE)			
	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours	
	MATH 2415	Calculus III	4	MATH 2320	Differential Equations	3				
	PHYS 2426	Electricity, Magnetism, Light	4	ENGR 2405	Electrical Circuits I	4				
	ENGR 2406	Intro to Digital Systems	4	MATH 2318	Linear Algebra	3				
	ENGR 2304 ^{PR}	Programming for Engineers	3	GOVT 2306	Texas Government	3				
				PHED	Any PHED Activity	1				
	Fall Total Credit Hours			15	Spring Total Credit Hours			14	Summer Total Credit Hours	

Additional Semester at LU	Summer Semester									
	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours	
	ELEN 3101	Advanced EE Lab	1							
	ELEN 3328	Quantum Mechanics 4 EEs	3							
	ELEN 3431	Digital Logic Design	4							
Total Credit Hours			8							

Third Year at Lamar University	FALL			SPRING			SUMMER (IF APPLICABLE)			
	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours	
	ELEN 3312	Circuits II	3	ELEN 3313	Signals & Systems	3				
	ELEN 3371	Electromagnetics	3	ELEN 3322	Electronics II	3				
	ELEN 3421	Electronics I	4	ELEN 3381	Electrical Analysis	3				
	ELEN 4486	Microcomputers I	4	ELEN 3441	Fund. Power Engr.	4				
	Lang/Phil/Cult Core Elective		3	ELEN 4387	Microcomputers II	3				
	Fall Total Credit Hours			17	Spring Total Credit Hours			16	Summer Total Credit Hours	

Fourth Year at Lamar University	FALL			SPRING			SUMMER (IF APPLICABLE)			
	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours	
	ELEN 4306	Senior Proj Design I	3	ELEN 4307	Sen Proj Design II	3				
	ELEN 4351	Control Engineering	3	MATH 3370	Intro to theory of Statistical Inference	3				
	ELEN Elective ^{EE}		3	Creative Arts	Core Elective	3				
	ELEN Elective ^{EE}		3	Soc Beh Sci	Core Elective	3				
	COMM 1315	Public Speaking	3	ELEN Elective ^{EE}		3				
	Fall Total Credit Hours			15	Spring Total Credit Hours			15	Summer Total Credit Hours	

NOTES/COMMENTS:
 All STEM courses require a grade of "C" or better to satisfy degree plan/prerequisite requirements.
 PH - or PHIL 2306 Ethics
 EE - Non-EE courses may be substituted if approved by the Department Chair
 CO - Communication electives are: at LSC: COMM 1315; at LU: COMM 1315, 1321, DSDE 1371, FREN 1311, or SPAN 1311
 CA - Fine/Creative Arts electives are: at LSC: ARTS 1301, 1303, MUSI 1306, DANC 2303; at LU: ARTS 1301, 1303, DANC 2304, MUSI 1306, COMM 1375, or PHIL 1330
 HI - Two semesters of US or Texas history from HIST 1301, 1302, or 2301.
 SBS - Social and Behavioral Science electives are: at LSC: ECON 2301, 2302, PSYC 2301, SOCI 1301; at LU: ECON 1301, PSYC 2301, SOCI 1301, ENON 2301, 2302, or ENGR 2308.
 PR - ELEN 1301 - Intro to Computers & Programming is needed before taking ELEN 2411 Circuits I. (An equivalent high school or community College programming course may be accepted)