

Proposed FOUR-YEAR DEGREE MAP 2020 - 2021 Austin Community College

First Year at Austin Community College	FALL			SPRING			SUMMER (IF APPLICABLE)		
	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours
	EDUC 1300	Learning Framework	3	MATH 2414	Calculus II	4			
	MATH 2413	Calculus I	4	PHYS 2425	Engineering Physics I	4			
	ENGL 1301	English Composition I	3	ENGL 1302	English Composition II	3			
	ENGR 1201	Intro to Engineering	2	GOVT 2305	US Government	3			
	GOVT 2306	TX State and Local Govt	3	PHIL 2306	Ethics	3			
	Fall Total Credit Hours		15	Spring Total Credit Hours		17	Summer Total Credit Hours		0

Second Year at Austin Community College	FALL			SPRING			SUMMER (IF APPLICABLE)		
	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours
	MATH 2415	Calculus III	4	MATH 2420	Differential Equations**	4			
	PHYS 2426	Engineering Physics II	4	ENGR 2405	Electrical Circuits I	4			
	HIST 1302	US History II	3	ECON 2301	Principles of Microeconomics	3			
	COSC 1320	C++ Programming	3	HIST 1302	US History II	3			
	Fall Total Credit Hours		14	Spring Total Credit Hours		14	Summer Total Credit Hours		0

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						
	MATH 2318	Linear Algebra	3						
	Total Credit Hours		11						

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	CHEM 1311* ^{CH}	General Chemistry I	3
	ELEN 3371	Electromagnetics	3	ELEN 3322	Electronics II	3	CHEM 1111* ^{CH}	Gen. Chem I Lab	1
	ELEN 3421	Electronics I	4	ELEN 3381	Electrical Analysis	3			
	ELEN 4486	Microcomputers I	4	ELEN 3441	Fund. Power Engr.	4			
				ELEN 4387	Microcomputers II	3			
	Fall Total Credit Hours		14	Spring Total Credit Hours		16	Summer Total Credit Hours		4

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	Fine Arts Core* ^{FA}	ARTS 1301, DANC 2304, COMM 1375	3			
	ELEN Elective ^{EE}		3	MATH 3370	Intro to theory of Statistical Inference	3			
	ELEN Elective ^{EE}		3	Comm. Core* ^{CO}		3			
	Fall Total Credit Hours		12	Spring Total Credit Hours		12	Summer Total Credit Hours		0

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: COMM 1315, 1321, DSDE 1371, FREN 1311, or SPAN 1311
 FA - Fine Arts electives are: 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: ECON 1301, PSYC 2301, SOCI 1301, ENON 2301, 2302, or ENGR 2308
 CH - both CHEM 1311 and CHEM 1111 can be taken in Fall, Spring, or Summer I, face-to-face
 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)
 * Core Curriculum Course.
 ** 3 hours are transferrable for MATH 2420 per TX Field of Study.
 # Please discuss these course option with your advisor to determine what course best meets your needs.