

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

First Year at HCC	FALL			SPRING			SUMMER (IF APPLICABLE)			
	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours	
	HIST ^{HI}	Am History Elective	3	ENGR 1204	Engineering Graphics I	2				
ENGL 1301	Composition I	3	ENGL 2311/2302	Tech & Business Writing	3					
MATH 2413	Calculus I	4	MATH 2414	Calculus II	4					
CHEM 1311	General Chemistry I	3	PHYS 2325	University Physics I	3					
CHEM1111	Gen. Chemistry I Lab	1	PHYS 2125	Univ Physics I Lab	1					
ENGR 1201	Intro to Engineering	2	GOVT 2305/2306	TX or Federal Government	3					
Fall Total Credit Hours			16	Spring Total Credit Hours			16	Summer Total Credit Hours		0

Second Year - at HCC	FALL			SPRING			SUMMER (IF APPLICABLE)			
	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours	
	ENGR 2304 ^{PR}	Programming for Eng.	3	ENGR 2405	Electrical Circuits I	4				
ECON 2301/2302	Principles of Microeconomics	3	MATH 2320	Differential Equations	3					
ENGR 2301	Eng. Mechanics - Statics	3	ENGR Elect		3					
MATH 2415	Calculus III	4	Cr. Arts Elect ^{CA}		3					
PHYS 2326	University Physics II	3	Lan, Phil, Cult ^{LPC}		3					
PHYS 2126	Univ. Physics II Lab	1								
Fall Total Credit Hours			17	Spring Total Credit Hours			16	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				
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					
			ELEN 4387	Microcomputers II	3					
Fall Total Credit Hours			14	Spring Total Credit Hours			16	Summer Total Credit Hours		0

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	HIST 1302*	US History II, since 1877	3					
ELEN Elective ^{EE}		3	POLS 2302*	Intro American Govt II	3					
ELEN Elective ^{EE}		3	Comm. Elective ^{CO}		3					
			MATH 3370	Intro to theory of Statistical Inference	3					
			ELEN Elective ^{EE}		3					
Fall Total Credit Hours			12	Spring Total Credit Hours			18	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
 CA - Fine/Creative Arts electives are: at LU: ARTS 1301, 1303, DANC 2304, MUSI 1306, COMM 1375, or PHIL 1330; at HCC: ARTS 1301, 1303, 1304, COMM 2366, DANC 1305, 2303, DRAM 1301, 2361, 2366, HUMA 1301, 1311, MUSI 1306, 1307, 1310.
 LPC - at HCC: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, 2351, HIST 2311, 1312, 1321, 2322, HUMA 1305, 2319, 2323, PHIL 1301, 1304, 2306, 2307, 2316
 HI - at HCC: HIST 1301, 1302, 2301, 2327, 2328, 2381.
 SBS - Social and Behavioral Science electives are: 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)
 * Core Curriculum Course.