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

	FALL			SPRING					
at HCC	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours
Ħ H	HIST <sup>HI</sup>	Am History Elective	3	ENGR 1204	Engineering Graphics I	2			
ar a	ENGL 1301	Composition I	3	2311/1302	Vriting	3			
Year	MATH 2413	Calculus I	4	MATH 2414	Calculus II	4			
First	CHEM 1311	General Chemistry I	3	PHYS 2325	University Physics I	3			
Н	CHEM1111	Gen. Chemistry I	1	PHYS 2125	Univ Physics I Lab	1			
	ENGR 1201	Intro to Engineering	2	GOVT 2305/2306	TX or Federal Government	3	•		
						16			0

	FALL				SPRING		(I)	SUMMER (IF APPLICABLE)	
S	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours
т нсс	ENGR 2304 <sup>PR</sup>	Programming for Eng.	3	ENGR 2405	Electrical Circuits I	4			
Year - at	ECON 2301/2302	Pronciples of Microeconomics	3	MATH 2320	Differential Equations	3			
	ENGR 2301	Eng. Mechanics - Statics	3	ENGR Elect		3			
Second	MATH 2415	Calculus III	4	Cr. Arts Elect*CA		3			
S	PHYS 2326	University Physics	3	Lan, Phil, Cult* <sup>LPC</sup>		3			
	PHYS 2126	Univ. Physics II Lab	1						
	Fall Total Credit Hours		17	Spring Tot	al Credit Hours	16	Summer To	otal Credit Hours	0

TO		Summer Semester									
Additional Semester at	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	4								
	MATH 2318	Linear Algebra	3								
	Total Credit Hours		11								

rsity	FALL				SPRING		SUMMER (IF APPLICABLE)		
University	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours
	ELEN 3312	Circuits II	3	ELEN 3313	Signals & Systems	3			
Lamar	ELEN 3371	Electromagnetics	3	ELEN 3322	Electronics II	3			
at	ELEN 3421	Electronics I	4	ELEN 3381	Electrical Analysis	3			
Year	ELEN 4486	Microcomputers I	4	ELEN 3441	Fund. Power Engr.	4			
				ELEN 4387	Microcomputers II	3			
Third									
	Fall Total Credit Hours		14	Spring Tot	al Credit Hours	16	Summer Te	otal Credit Hours	0

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	3	3	POLS 2302*	Intro American Govt II	3			
_	ELEN Elective <sup>EE</sup>		3	Comm. Elective*	0	3			
Fourth									
Fol									
	Fall Total Credit Hours			Spring Total Credit Hours			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: COMM 1315, 1321, DSDE 1371, FREN 1311, or SPAN 1311
CA - Fine/Creative Arts electives are: at Lt: 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, 2316, 13266, HUMA 1301, 1311, MUSI 1306, 1307, 1310.
LPC - at HCC: ENGL 2322, 2323, 2327, 2328, 2332, 2342, 2343, 2351, HIST 2311, 1312, 1321, 2322, HUMA 1305, 2319, 2323, PHIL 1301, 1304, 2306, 2307, 2316
HI - at HCC: HST 1301, 1302, 2301, 2327, 2332, 2331.
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) accepted)
\* Core Curriculum Course.