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

First Year at HCC

FALL			SPRING					
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 2311/1302	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			
		16			**16**			**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	Pronciples 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			
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 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.