



**Transfer Pathway: Houston Community College
AS Engineering Science, Civil to Lamar
University BS Civil Engineering**



First Year - Freshman							
Fall Semester				Spring Semester			
HCC	Lamar	Course Name	Hrs	HCC	Lamar	Course Name	Hrs
ENGR 1201		Intro to ENGR	2	ENGR 1304		ENGR Graphics I	3
ENGL 1301		English Comp I	3	ENGL 2311		Technical & Business Writing	3
HIST Core		History Core	3	MATH 2414		Calculus II	4
MATH 2413		Calculus I	4	PHYS 2325		Univ Physics I	3
CHEM 1411		General Chemistry I	4	PHYS 2125		Univ Physics I Lab	1
Total			16	Total			14
Summer Semester							
HCC	Lamar	Course Name	Hrs	HCC	Lamar	Course Name	Hrs
Total			0	Total			0
Second Year - Sophomore							
Fall Semester				Spring Semester			
HCC	Lamar	Course Name	Hrs	HCC	Lamar	Course Name	Hrs
ENGR 2301		Statics	3	ENGR 2332		Mechanics	3
ECON 2301 or 2302*		Micro or Macro Economics	3	MATH 2320		Differential Equations	3
MATH 2415		Calculus III	4	ENGR 2302		Dynamics	3
PHYS 2326		Univ Physics II	3	GOVT 2305		Federal Govt	3
PHYS 2126		Univ Physics II Lab	1	Elective		Elective	1
ENGR 2304		Programming for ENGR	3				
Total			17	Total			13
Summer Semester							
HCC	Lamar	Course Name	Hrs	HCC	Lamar	Course Name	Hrs
ENGR 2308	INEN 2373*	ENGR Economics	3				
Total			3	Total			0
Third Year - Junior							
Fall Semester				Spring Semester			
Lamar	Course Name	Hrs	Lamar	Course Name	Hrs		
MATH 3370	Statistics	3	CVEN 3300	Engineering Materials Systems	3		
CVEN 3311	Intro to Environmental Engineering	3	CVEN 3360	Engineering Hydrology	3		
CVEN 3351	Fluid Mechanics	3	CVEN 3370	Water & Wastewater Treatment	3		
POLS 2301	Political Science I	3	CVEN 3390	Geo-technical Engineering	3		
LPC Core**	LPC Core**	3	Science Elective***	Science Elective***	4		
CVEN 3340	Structural Analysis	3					
Total		18	Total		16		
Summer Semester							
Lamar	Course Name	Hrs	Lamar	Course Name	Hrs		
Total		0	Total		0		
Fourth Year - Senior							
Fall Semester				Spring Semester			
Lamar	Course Name	Hrs	Lamar	Course Name	Hrs		
CVEN 4365	Intro to Transport Engineering	3	CVEN 4390	Structural Steel Design	3		
CVEN 4212	Systems Design Project I	2	CVEN 4350	Hydraulics Engineering	3		
CVEN 4340	Foundation Engineering	3	CVEN 4313	Systems Design Project II	3		
CVEN 4380	Reinforced Concrete Design	3	Advd. CVEN Elective^	CVEN Elective	3		
CVEN 4110	Seminar	1	CA Core	CA Core	3		
Advd. CVEN Elective^	CVEN Elective	3					
Total		15	Total		15		

Notes:

*The LU Civil Engineering degree requires Engineering Economics. Neither ECON 2301 nor 2302 will not satisfy this requirement.

**LU prefers PHIL 2306 Ethics

***LU Science Elective requirements may be satisfied by taking BIOL 1306/1106 Biology for Science Majors I (with lab) or GEOL 1403 Physical Geology (with lab) or COSC 1436 Programming Fundamentals. Students may take this course at HCC and transfer it to LU.

Creative Arts core can be taken at HCC and transferred to LU.

^Advd. CVEN Elective - CVEN 4320, 4370, or 53XX (students are allowed to take up to 6 graduate-level credits if they meet the pre-requisites for the course and get permission from the course instructor/department chair)