



**Transfer Pathway: Houston Community College
AS Engineering Science, Mechanical to Lamar
University BS Mechanical 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 1412		General Chemistry w/lab II	4	PHYS 2125		Univ Physics I Lab	1
				ENGR 2304		Programming for ENGR	3
Total			16	Total			17
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 2305		Circuits I	3
GOVT 2305		Federal Govt	3	ENGR 2105		Circuits I Lab	1
MATH 2415		Calculus III	4	MATH 2320		Differential Equations	3
PHYS 2326		Univ PHYS II	3	ENGR 2302		Dynamics	3
PHYS 2126		Univ PHYS II Lab	1	ECON 2301 or 2302*		Micro or Macro Economics	3
Total			14	Total			13
Summer Semester at HCC and/or LU							
HCC	Lamar	Course Name	Hrs	HCC	Lamar	Course Name	Hrs
ENGR 2332	MEEN 2372	Mech. Of Solids	3	PHIL 2306		Ethics	3
	MEEN 2374**	Thermodynamics I	3	MATH 2318		Linear Algebra	3
Total			6	Total			6
Third Year - Junior							
Fall Semester				Spring Semester			
Lamar	Course Name	Hrs	Lamar	Course Name	Hrs	Lamar	Course Name
MEEN 3340	Engineering Analysis	3	MEEN 3210	Measurements Lab	2		
MEEN 3311	Fluid Mechanics	3	MEEN 3310	Heat Transfer	3		
INEN 3322	Process Engineering	3	MEEN 3300	Design of Mechanism	3		
INEN 2373	Engineering Economics	3	MEEN 3320	Mechanical Design I	3		
POLS 2301	Political Science I (GOVT2306)	3	MATH 3370	Statistics	3		
			MEEN 4110	Seminar	1		
Total		15	Total		15		
Summer Semester							
Lamar	Course Name	Hrs	Lamar	Course Name	Hrs	Lamar	Course Name
CA Core	Creative Arts Core	3	HIST Core	History Core	3		
Total		3	Total		3		
Fourth Year - Senior							
Fall Semester				Spring Semester			
Lamar	Course Name	Hrs	Lamar	Course Name	Hrs	Lamar	Course Name
MEEN 4310	Integrated System Design	3	MEEN 4316	Engineering Design Project	3		
MEEN 4313	Thermal System Design	3	MEEN 4317	Dynamic Systems Analysis	3		
MEEN 4319	Materials Science	3	MEEN Elective	MEEN Elective	3		
MEEN 4323	Mechanical Design II	3	Free Elective	Free Elective	3		
MEEN Elective	MEEN Elective	3					
MEEN 4110	Seminar	1					
Total		16	Total		12		

Notes:

ENGR 1304 is a 3 credit hour course at HCC, but it's equivalent at LU (MEEN 2213) is only 2 credit hours.

ENGR 2304 is a 3 credit hour course at HCC but it's equivalent at LU (MEEN 2112) is only 1 credit.

*ECON 2301 or 2302 will not replace Engineering Economics (INEN 2373/ENGR 2308) requirement at LU.

**MEEN 2374 Thermodynamics is the required course - no substitutions.