



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



First Year - Freshman							
Fall Semester				Spring Semester			
HCC	Lamar	Course Name	Hrs	HCC	Lamar	Course Name	Hrs
ENGR 1201		Intro to ENGR	2	COSC 1436		Programming Fundamentals I	4
ENGL 1301		English Comp I	3	ENGL 2311		Technical & Busines Writing	3
HIST Core		History Core	3	MATH 2414		Calculus II	4
MATH 2413		Calculus I	4	PHYS 2325		Univ Physics I	3
CHEM 1311		General Chemistry I	3	PHYS 2125*		Univ Physics I Lab	1
CHEM 1111		General Chemistry I Lab	1	ECON 2301 or 2302		Macro or Micro Economics	3
<b>Total</b>			<b>16</b>	<b>Total</b>			<b>18</b>
Summer Semester							
HCC	Lamar	Course Name	Hrs	HCC	Lamar	Course Name	Hrs
<b>Total</b>			<b>0</b>	<b>Total</b>			<b>0</b>
Second Year - Sophomore							
Fall Semester				Spring Semester			
HCC	Lamar	Course Name	Hrs	HCC	Lamar	Course Name	Hrs
COSC 1437**		Prgmmng Fund II	4	ENGR 2305		Electrical Circuits I	3
MATH 2415		Calculus III	4	ENGR 2105		Circuits Lab	1
PHYS 2326		Univ PHYS II	3	COSC 2436**		Prgmmng Fund III	4
PHYS 2126		Univ PHYS II Lab	1	MATH 2320		Diff. Equat.	3
				ENGR 2306		Intro Digital Systems	3
				ENGR 2106		Intro Digital Systems Lab	1
<b>Total</b>			<b>12</b>	<b>Total</b>			<b>15</b>
Summer Semester at Lamar University							
HCC	Lamar	Course Name	Hrs	HCC	Lamar	Course Name	Hrs
	ELEN 3101	Advanced EE Lab	1		MATH 2318	Linear Algebra	3
	COSC 2375 or MATH 3321	Discrete Structure	3				
<b>Total</b>			<b>3</b>	<b>Total</b>			<b>3</b>
Third Year - Junior							
Fall Semester				Spring Semester			
Lamar	Course Name	Hrs	Lamar	Course Name	Hrs		
CA Core	Creative Arts Core	3	ELEN 3313	Signals, Systems, and Transforms	3		
ELEN 3330	Operating Systems	3	ELEN 3340	Digital IC	3		
ELEN 3421	Electronics I	4	ELEN 3451	Digital Design II	4		
ELEN 4486	Embedded Microprocessor Systems	4	ELEN 4387	Computer Organization & Architecture	3		
MATH 3370 or INEN 3320	Intro to Theory of Statistical Inference	3	POLS 2302*	Political Science II	3		
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>16</b>		
Summer Semester							
Lamar	Course Name	Hrs	Lamar	Course Name	Hrs		
<b>Total</b>		<b>0</b>	<b>Total</b>		<b>0</b>		
Fourth Year - Senior							
Fall Semester			Spring Semester				
Lamar	Course Name	Hrs	Lamar	Course Name	Hrs		
ELEN 4306	Senior Project Design I	3	ELEN 4307	Senior Project Design II	3		
ELEN 4314	Fundamentals of DSP	3	HIST 1302*	US History II	3		
ELEN Elective <sup>EE</sup>	ELEN Elective	3	ELEN Elective <sup>EE</sup>	ELEN Elective	3		
ELEN Elective <sup>EE</sup>	ELEN Elective	3	LPC Core	Language, Philosophy, Culture Core	3		
ELEN 3320	Computer Networks	3	GOVT Core	GOVT Core	3		
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>		

Notes:  
 \*LU requires PHYS 2125 University Physics I Lab.  
 \*\*LU will accept COSC 1437 OR 2436 to replace ELEN 2301.