

CENTX 6	Central Texas College		Lamar University	
10/20/19	AS in Engineering		BS in Industrial Engineering	
	Completed Courses	Hours	Hours	Course Options
<b>Communication</b>			6	
	ENGL 1301	3		ENGL 1301
				and one of below
	SPCH 1315	3		COMM 1315
				COMM 1321
				DSDE 1371
				FREN 1311
				SPAN 1311
<b>Math</b>			3	
	MATH 2413	4		MATH 2413
<b>Life/Physical Sciences</b>			6	
	Life/Phys Sci Core Elective	4		CHEM 1311 *
				CHEM 1111 *
	Life/Phys Sci Core Elective	4		CHEM 1312 *
				CHEM 1112 *
				BIOL 1406
				BIOL 1407
<b>Language, Philosophy and Culture</b>				
	PHIL 2306 *	3	3	PHIL 2306 **
				PHIL 1370
				ENGL 2300
				ENGL 2310
				ENGL 2320
				ENGL 2322
				ENGL 2326
				ENGL 2331
				ENGL 2371
				ENGL 2376
<b>Creative Arts</b>			3	
	Creative Arts Core Elective	3		ARTS 1301
				ARTS 1303
				COMM 1375
				DANC 2304

				MUSI 1306
				MUSI 1310
				PHIL 1330
				THEA 1310
<b>American History</b>			6	
	HIST 1301	3		HIST 1301
	HIST 1302	3		HIST 1302
				HIST 2301
<b>Govern/Political Science</b>			6	
	GOVT 2305	3		POLS 2301
	GOVT 2306	3		POLS 2302
<b>Social/Behavioral Science</b>			3	
				INEN 2373***
				ECON 1301
				ECON 2301
				ECON 2302
				PSYC 2301
	SOCI 1301	3		SOCI 1301
<b>Component Area Option</b>			6	
	MATH 2414	4		MATH 2414
				2 hours lab science
<b>Degree Requirements</b>			55	
	ENGR 1201	2		INEN 1101
				INEN 2360
				INEN 2373
				INEN 3322
				INEN 3380
	ENGR 2305 Circuits I	3		ELEN 2310
	ENGR 2301 Statics	3		CVEN or MEEN 2301
	ENGR 2302	3		MEEN 2302
				INEN 3320
				INEN 4315
				INEN 4350
				INEN 4320
				INEN 4345
				INEN 4370
				INEN 4300
				INEN 4323
				INEN 4375

				INEN 4316
				INEN 4385
Additional Requirements			14	
				MATH 2318
				MATH 3301
				PHYS 2425
				PHYS 2426
Upper Level Electives			12	
Transfer hours			54	
				* lab is required
General Transfer Hours	Component Option Elective		3	** preferred course
	ENGR 2332		3	*** Required for degree

60 121

**FOUR-YEAR DEGREE MAP 20 - 20**

(RECOMMENDED) FIRST YEAR AT Central Texas College	FALL			SPRING			SUMMER (IF APPLICABLE)		
	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours
	ENGL 1301	Composition I	3	HIST 1302	U S History II	3	MATH 2414	Calculus II	4
	HIST 1301	U S History I	3		Phy/Life Science Selection	4		Component Area Option	3
	SPCH 1315	Public Speaking	3	MATH 2413	Calculus I	4			
		Creative Arts Selection	3	GOVT 2305	Federal Government	3			
	ENGR 1201	Intro to Engineering	2						
		<b>Fall Total Credit Hours</b>	<b>14</b>		<b>Spring Total Credit Hours</b>	<b>14</b>		<b>Summer Total Credit Hours</b>	<b>7</b>

(RECOMMENDED) SECOND YEAR AT Central Texas College	FALL			SPRING			SUMMER (IF APPLICABLE)		
	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours
		Phy/Life Science Selection	4	GOVT 2306	Texas Government	3			
ENGR 2301	Engineering Mechanics I - Statics	3	ENGR 2332	Mechanics of Materials	3				

ENGR 2305	Electrical Circuits I	3		Lang/Phil/Culture Selection	3			
			ENGR 2302	Engineering Mechanics II Dynamics	3			
				Social/Behavioral Sci Selection	3			
<b>Fall Total Credit Hours</b>		<b>10</b>	<b>Spring Total Credit Hours</b>		<b>15</b>	<b>Summer Total Credit Hours</b>		

Additional Lower Level Coursework	Course	Title	Credit Hours
	MATH 2318	Linear Algebra	3
	PHYS 2425	University Physics I	4
	PHYS 2426	University Physics II	4
<b>Total Credit Hours</b>			<b>11</b>

THIRD YEAR AT LAMAR UNIVERSITY	FALL			SPRING			SUMMER (IF APPLICABLE)			
	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours	
	INEN 2373	Engineering Economics	3	INEN 4320	Stat Decision Making Engr	3				
	INEN 3320	Probability & Stat for Engr	3	INEN 4345	Computer Int. Manufacturing	3				
	INEN 4315	Industrial Management	3	INEN 4370	Operations Research	3				
	INEN 2360		3	INEN 4300	Quality Improvement	3				
	INEN 3322	Engr. Materials & Processes	3	INEN 3380	Work Design	3				
<b>Fall Total Credit Hours</b>			<b>15</b>	<b>Spring Total Credit Hours</b>			<b>15</b>	<b>Summer Total Credit Hours</b>		

**NOTES/COMMENTS:**

FOURTH YEAR AT LAMAR UNIVERSITY	FALL			SPRING			SUMMER (IF APPLICABLE)		
	Course	Title	Credit Hours	Course	Title	Credit Hours	Course	Title	Credit Hours
	INEN 4323	IE Systems Design	3	INEN 4385	IE Design	3			
	INEN 4375	Simulation of EI Systems	3	Approved Elect.		3			
	INEN 4316	Industrial and Product Safety	3	Approved Elect.		3			
	MATH 3301	Differential Equations	3	Approved Elect.		3			
	INEN 4350	Production & Inventory Control	3	Approved Elect.		3			
	<b>Fall Total Credit Hours</b>	<b>15</b>	<b>Spring Total</b>		<b>15</b>				