	Central Texas College		Lamar University	
9/16/19	Associate of Science in Engineering		BS in Civil Engineering	
	Completed Courses	Hours	Hours	Course Options
Communication			6	
	ENGL 1301	3		ENGL 1301
				and one of below
	COMM 1315	3		COMM 1315
				COMM 1321
				DSDE 1371
				FREN 1311
				SPAN 1311
Math			4	
	MATH 2413	4		MATH 2413
Life/Physical Sciences			8	
	PHYS 2425*	4		PHYS 2425*
	PHYS 2426*	4		PHYS 2426*
				(2 hours lab science is with the Physics classes)
Language, Philosophy and Culture			3	
	Lang, Phil, Culture Core Elective	3		PHIL 2306 **
				PHIL 1370
Creative Arts			3	
	Creative Arts Core Elective	3		ARTS 1301
				ARTS 1303
				COMM 1375
				DANC 2304
				MUSI 1306
				MUSI 1310
				PHIL 1330
				THEA 1310
American History			6	

	HIST 1301 required	3		HIST 1301 required
	HIST 1302	3		HIST 1302
				HIST 2301
Govern/Political Science			6	
	GOVT 2305 Federal Government	3		POLS 2301
	GOVT 2306 Texas Government	3		POLS 2302
Social/Behaviora l Science			3	
	Social Behav Sci Core Elective	3		INEN 2373*** Engineering Economics
Component Area Option			8	
	MATH 2414	4		MATH 2414
				MATH 2415
Degree Requirements			66	
	CHEM 1411 (Component Area Core Elective)	4		CHEM 1111 General Chemistry I Lab
				CHEM 1311 General Chemistry I
				CVEN 1201 Introduction to Civil Engineering
	ENGR 2301 Statics	3		CVEN 2301 Statics
				CVEN 2370 Intro to CAD & Surveying
	ENGR 2332 Mechanics of Materials	3		CVEN 2372 Mech of Solids
				CVEN 3300 Engineering Materials Systems
				CVEN 3311 Intro to Evironmental Engr
				CVEN 3340 Structural Analysis
				CVEN 3351 Fluid Mechanics
				CVEN 3360 Engineering Hydrology
				CVEN 3370 Water and Wastewater Treatment

				CVEN 3390 Geo-Technical Engr
				CVEN 4110 Seminar
				CVEN 4212 Civil Engineering Systems Design Project
				CVEN 4313 CE Systems Design Project II
				CVEN 4340 Foundation Engr
				CVEN 4350 Hydraulic Engr
				CVEN 4365 Intro to Trans Engr
				CVEN 4380 Reinforced Concrete Design
				CVEN 4390 Structural Steel Design
				MATH 3301 Ordinary Differential Equations
				MATH 3370 Intro to Theory of Stat Inference
	ENGR 2302 Dynamics	3		MEEN 2302 Dynamics
				INEN 2373 ***
SCIENCE ELECTIVE			4	
				GEOL 1403/BIOL 1405
CVEN ELECTIVE			6	
				CVEN 4320/CVEN 4370/CVEN 4309/CVEN 53XX/Math2318
Transferable Hours	56			
	ENGR 2305 Electrical Circuits I	3		* lab is required
	ENGR 1201 Intro to Engr****	2		** preferred course
				***INEN 2373 is required for degree
				****ENGR 1201 does not meet the requirements for CVEN 1201 unless the student has a completed programming course.

Total Hours		**61**	**123**	All STEM courses required a grade of C or better

APPLICABLE DEGREE MAP ATTACHED HERE)

Engineering to Civil

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	PHYS 2425	University Physics	4	CHEM 1411	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						
	Fall Total Credit Hours		**14**	**Spring Total Credit Hours**		**14**	**Summer Total Credit Hours**		**7**

(RECOMMENDED) SECOND YEAR AT Central Texas College	FALL			SPRING			SUMMER (IF APPLICABLE)		
	Course	**Title**	**Credit Hours**	**Course**	**Title**	**Credit Hours**	**Course**	**Title**	**Credit Hours**
	PHYS 2426	Phy/Life Science Selection	4	GOVT 2306	Texas Government	3			
	ENGR 2301	Engineering Mechanics-Statics	3	ENGR 2332	Mechanics of Materials	3			
	ENGR 2305	Electrical Circuits I	3		Lang/Phil/Culture Selection	3			
				ENGR 2302	Engineering Mechanics-Dynamics	3			
				Social/Behavioral Sci Selection		3			
	Fall Total Credit Hours		**10**	**Spring Total Credit Hours**		**15**	**Summer Total Credit Hours**		

THIRD YEAR AT LAMAR UNIVERSITY	FALL			SPRING			SUMMER (IF APPLICABLE)		
	Course	**Title**	**Credit Hours**	**Course**	**Title**	**Credit Hours**	**Course**	**Title**	**Credit Hours**
	CVEN 3311	Intro to Environmental Engineering	3	CVEN 3300	Engr Materials Systems	3	GEOL 1403/BIOL 1405	Science Elective	4
	CVEN 3340	Structural Analysis	3	CVEN 3360	Engineering Hydrology	3	MATH 3301	Ordinary Differential Equation	3

	CVEN 3351	Fluid Mechanics	3	CVEN 3370	Water and Waste	3	MATH 2415	Calculus III	4
	INEN 2373	Engineering Economics	3	CVEN 3390	Geotechnical Engineering	3			
	CVEN 1201	Intro to Civil Engineering	2	CVEN 2370	Intro to CAD and Surveying	3			
	MATH 3370	Intro to Theory of Statistical Inference	3						
	Fall Total Credit Hours		**17**	**Spring Total Credit Hours**		**15**	**Summer Total Credit Hours**		**11**

NOTES/COMMENTS:

FOURTH YEAR AT LAMAR UNIVERSITY	FALL			SPRING			SUMMER (IF APPLICABLE)		
	Course	**Title**	**Credit Hours**	**Course**	**Title**	**Credit Hours**	**Course**	**Title**	**Credit Hours**
	CVEN 4212	Civil Engineering System Design Project	2	CVEN Elective		3			
	CVEN Elective		3	CVEN 4350	Hydraulics	3			
	CVEN 4340	Foundation Engineering	3	CVEN 4390	Structural Steel	3			
	CVEN 4380	Reinforced Concrete Design	3	CVEN 4313	Civil Engineering Systems Design Project II	3			
	CVEN 4110	Seminar	1						
	CVEN 4365	Intro to Trans Engr	3						
			15			12			

NOTES/COMMENTS: