



McLennan Community College & Angelo State University Transfer Plan for
Civil Engineering, Associate of Science (A.S.)

Civil Engineering, Associate of Science (A.S.)								
Bachelor of So	cience in Civil Engineering (B.S.C	.E.)						
McLennan Community College Fall Semester		sch	McLennan Community College Spring Semester Year		sch			
Year 1			1					
ENGR 1201	Introduction to Engineering	2	ENGR 2304	Programming for Engineers will	3			
(Program	will transfer as ASU's ENGR		(Program	transfer as ASU's ENGR 2304				
Requirement)	1201		Requirement)					
ENGR 1304	Engineering Graphics I will	3	ENGR 1307	Plane Surveying will transfer as ASU's	3			
(Program	transfer as ASU's ENGR 1304		(Program	ENGR 1307				
Requirement)			Requirement)					
MATH 2413	Calculus I will transfer as ASU's	4	PHYS 2425	University Physics I will transfer as	4			
(Core 020N &	MATH 2413		(Core 030N &	ASU's PHYS 2325 AND PHYS 2125				
Major			Major					
Support			Support					
Course)			Course)					
ENGL 1301	Composition I will transfer as	3	MATH 2414	Calculus II will transfer as ASU's MATH	4			
(Core 010N)	ASU's ENGL 1301		(Major	2414				
			Support					
			Course)					
EDUC 1100	Learning Frameworks will	1/3	ENGL 2311	Technical & Business Writing will	3			
OR EDUC	transfer as ASU's USTD NENA		(Core 010N)	transfer as ASU's ENGL 2311				
1300¹ (Major	(GS 1181)							
Support								
Course)								
HIST 1301	United States History I will	3						
(Core 060N)	transfer as ASU's HIST 1301							
	TOTAL	16		TOTAL	17			
		/18						
					sch			
McLennan Community College Fall Semester			McLennan Co	McLennan Community College Spring Semester Year				
Year 2			2					
ENGR 2301	Engineering Mechanics:	3	ENGR 2302	Engineering Mechanics: Dynamics	3			
(Program	Statics will transfer as ASU's		(Program	will transfer as ASU's ENGR 2302				
Requirement)			Requirement)					
ENGR 2308	Engineering Economics will	3	ENGR 2332	Mechanics of Materials will transfer	3			
(Program	transfer as ASU's ENGR 2318		(Program	as ASU's ENGR 2332				
Requirement)			Requirement)					
PHYS 2426	University Physics II will	4	CHEM 1409	Chemistry for Engineers will transfer	4			
(Core 030N &	transfer as ASU's PHYS 2326		(Area B 090N	as ASU's CHEM 1311 AND 1111				
Major	AND PHYS 2126		& Major					
Support			Support					
Course)			Course)					
MATH 2415 ²	Calculus III will transfer as	4	MATH 2320 ³	Differential Equations will transfer as	3			
(Major	ASU's MATH NENA		(Major	ASU's MATH NENA				
Support			Support					
Course)			Course)					





MATH 2318 ³	Linear Algebra will transfer as	3	SPCH 1315	Public Speaking will transfer as ASU's	3
(Major	ASU's MATH NENA		(Area A 091)	COMM 1315	
Support					
Course)					
	TOTAL	17		TOTAL	16
			TOTAL DEGREE HOURS		66 /
					68

¹ MCC's EDUC 1100 or EDUC 1300 will transfer as ASU's USTD NENA and is approved to substitute ASU's GS 1181 (Freshman Seminar Course).

²MATH 2415 will transfer in as MATH NENA. MATH 2415 is approved to substitute MATH 3415 for the purpose of this agreement with the DLH Department of Engineering. If a student changes their major, the substitution will not apply to their new degree plan.

³MATH 2318 will transfer as MATH NENA and MATH 2320 will transfer as MATH NENA. Taking both MATH 2318 and MATH 2320 are approved to substitute ASU's MATH 3324. This is approved for the purpose of this agreement with the DLH Department of Engineering. If a student changes their major, the substitution will not apply to their new degree plan.

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ASU Fall Semester Year 1		sch	ASU Spring Semester Year 1		sch		
CENG 3361 (Program Requirement)	Structural Analysis I	3	ENGR 3404 (Program Requirement)	Introduction to Fluid Mechanics	4		
• •	Federal Government (Federal Constitution and Topics)	3	CENG 3341 (Program Requirement)	Geotechnical Engineering	3		
BIOL 1306/1106, 1307/1107, 1308/1108, 1309/1109, OR GEOL 1303/1103 ⁴ (Major Support Course)	Principles of Bio I/Lab, Principles of Bio II/Lab, Human Bio/Lab, Man and the Environment/Lab, OR Physical Geology/Lab	4	HIST 1302 (Core 060N)	History of the United States, 1865 to Present	3		
ENGR 3331 (Program Requirement)	Engineering Materials	3	ENGR 3305 (Program Requirement)	Probability and Risk in Engineering	3		
-	TOTAL	13		TOTAL	13		





ASU Fall Semester Year 2		sch	ASU Spring Semester Year 2		sch
CENG 3311	Introduction to	3	CENG 3352	Hydrology and Hydraulics	3
(Program	Transportation		(Program		
Requirement)	Engineering		Requirement)		
Creative Arts		3	ENGR 4201	Professional Engineering Practice	2
(Core 050N)			(Program		
			Requirement)		
CENG 3351	Introduction to	3	Technical		3
(Program	Environmental		Elective (adv)		
Requirement)	Engineering		(Program		
			Requirement)		
CENG/MATH/		3	Design Elective		3
Science Elective			(adv) (Program		
(adv) (Program			Requirement)		
Requirement)					
			Social and		3
			Behavioral		
			Sciences (Core		
			080N)		
	TOTAL	12		TOTAL	14
4011 = 110	<u> </u>	 			
ASU Fall Semeste		sch			
CENG 4380	Civil Engineering Senior	3			
(Program	Design				
Requirement)					
Design Elective		3			
(adv) (Program					
Requirement)					
Language,		3			
Philosophy, and					
Culture (Core					
040N)	T C /T	+ +			
	Texas Government (Texas	3			
070N)	Constitution and Topics)	12			
	TOTAL	12			
			B.S.C.E. TOTAL DEGREE HOURS		130
					/
					132

⁴Or other core science course outside of chemistry and physics, with departmental approval.





Civil Engineering Fundamentals

- I. Overall GPA of at least 2.50.
- II. Completion of the sequence below with a GPA of at least 2.50:
 - Engineering 1201 Introduction to Engineering
 - Engineering 1304 Engineering Graphics
 - Engineering 1307 Plane Surveying or Engineering 1308 Introduction to Geomatics
 - Engineering 2301* Engineering Mechanics Statics
 - Engineering 2302* Engineering Mechanics Dynamics
 - Mathematics 2413* Calculus I
 - Mathematics 2414*- Calculus II
 - Physics 2325/2125* Fundamentals of Physics I
 - Physics 2326/2126* Fundamentals of Physics II
- III. Successful completion of the advancement exam.

Additional Notes

Please Note: This guide is for students to utilize as a reference of what courses they can take at each institution. It's possible for students to take these courses in a different sequence if they are coming in with prior credit or if there are changes to course offerings and degree plans. Therefore, it is encouraged for students to reach out to their academic advisor at each institution to discuss current course options and sequences.

If students do not take MATH 2318: Linear Algebra at MCC, students will then need to take either MATH 3301 or MATH 3324 at ASU. Students are encouraged to reach out to the Academic Advisor at ASU to determine the best course option to meet the MATH 3324 requirement.

^{*}A grade of "C" or better is required for these courses.