



ASU Bachelor of Science in Civil Engineering
TJC Associate of Science in Engineering - Civil
2+2 Transfer Guide



Tyler Junior College & Angelo State University Transfer Plan for Associate of Science in Engineering – Civil and Bachelor of Science in Civil Engineering (B.S.C.E.)					
TJC Fall Semester Year 1		sch	TJC Spring Semester Year 1		sch
ENGL 1301	Composition I <i>will transfer as ASU's ENGL 1301</i>	3	ENGL 2311	Technical & Business Writing <i>will transfer as ASU's ENGL 2311</i>	3
MATH 2413	Calculus I <i>will transfer as ASU's MATH 2413</i>	4	MATH 2414	Calculus II <i>will transfer as ASU's MATH 2414</i>	4
CHEM 1411	General Chemistry w/Lab <i>will transfer as ASU's CHEM 1311 and CHEM 1111</i>	4	PHYS 2425	University Physics I <i>will transfer as ASU's PHYS 2325 and PHYS 2125</i>	4
ENGR 1201	Introduction to Engineering <i>will transfer as ASU's ENGR 1201</i>	2	HIST 1302	United States History II <i>will transfer as ASU's HIST 1302</i>	3
HIST 1301	United States History I <i>will transfer as ASU's HIST 1301</i>	3	ENGR 1304	Engineering Graphics I <i>will transfer as ASU's ENGR 1304</i>	3
EDUC 1300 ¹	Learning Framework <i>will transfer as ASU's GS 1181</i>	3			
	TOTAL	19		TOTAL	17
TJC Fall Semester Year 2		sch	TJC Spring Semester Year 2		sch
GOVT 2305	Federal Government <i>will transfer as ASU's POLS 2305</i>	3	MATH 2320 ³	Differential Equations <i>will transfer as ASU's MATH NENA</i>	3
PHYS 2426	University Physics II <i>will transfer as ASU's PHYS 2326 and PHYS 2126</i>	4	GOVT 2306	Texas Government <i>will transfer as ASU's POLS 2306</i>	3
MATH 2415 ²	Calculus III w/Analytic Geometry <i>will transfer as ASU's MATH NENA</i>	4	ECON 2301	Principles of Macroeconomics <i>will transfer as ASU's ECON 2301</i>	3
ENGR 2301	Engineering Mechanics: Statics <i>will transfer as ASU's ENGR 2301</i>	3	ENGR 2302	Engineering Mechanics – Dynamics <i>will transfer as ASU's ENGR 2302</i>	3
Language, Philosophy, and Culture	<i>will transfer as ASU's Language, Philosophy, and Culture</i>	3	ENGR 2304	Programming for Engineers <i>will transfer as ASU's ENGR 2304</i>	3
	TOTAL	17		TOTAL	15
				TOTAL DEGREE HOURS	68



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¹EDUC 1300 is not a requirement for the TJC degree plan, however, this credit is needed to meet the GS 1181 course requirement at ASU.

²MATH 2415 will transfer in as MATH NENA. MATH 2415 is approved to substitute MATH 3415 for the DLH Department of Engineering programs. This substitution is only applicable to this program and this agreement.

³MATH 2320 will transfer as MATH NENA. Students will then be required to take MATH 3301 at ASU. Taking both, MATH 2320 and MATH 3301 are approved to substitute ASU's MATH 3324 for the DLH Department of Engineering programs. This substitution is only applicable to this program and this agreement.

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ASU Fall Semester Year 1		sch	ASU Spring Semester Year 1		sch
ENGR 1307	Plane Surveying	3	ENGR 2318	Sustainable Development Principles	3
ENGR 3404	Introduction to Fluid Mechanics	4	ENGR 2332	Mechanics of Materials	3
MATH 3301	Linear Algebra	3	ENGR 3305	Probability and Risk in Engineering	3
CENG 3311	Introduction to Transportation Engineering	3	CENG 3352	Hydrology and Hydraulics	3
COMM 1315	Public Speaking	3	BIOL 1306/1106, 1307/1107, 1308/1108, 1309/1109, or GEOL 1303/1103 ⁴		4
	TOTAL	16		Total	16
ASU Fall Semester Year 2		sch	ASU Spring Semester Year 2		sch
CENG 3361	Structural Analysis I	3	CENG 4380	Civil Engineering Senior Design	3
ENGR 3331	Engineering Materials	3	ENGR 4201	Professional Engineering Practice	2
CENG 3351	Introduction to Environmental Engineering	3	Design Elective (advanced)		3
CENG/MATH/ Science Elective (adv)		3	Design Elective (advanced)		3
Technical Elective (advanced)		3	CENG 3341	Geotechnical Engineering	3
			Creative Arts		3



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	TOTAL	15		TOTAL	17
			B.S.C.E. Complete Total		132

⁴Or other core science course outside of chemistry and physics with department 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.

*A grade of “C” or better is required for these courses.

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.