Bachelor of Science in Civil Engineering
Weatherford College
2+2 Transfer Guide

Weatherford College & Angelo State University Transfer Plan for Associate of Science (A.S.) Bachelor of Science in Civil Engineering (B.S.C.E.)						
Weatherford College Fall Semester Year 1		**sch**		**Weatherford College Spring Semester Year 1**		**Sch**
ENGL 1301 (Core 010N)	Composition I *will transfer as ASU's ENGL 1301*	3		ENGL 1302 (Core 010N)	Composition II *will transfer as ASU's ENGL 1302*	3
ENGR 1201 (Program Requirement)	Introduction to Engineering *will transfer as ASU's ENGR 1201*	2		HIST 1301 (Core 060N)	United States History I *will transfer as ASU's HIST 1301*	3
CHEM 1411 (Area B 090N & Major Support Course)	General Chemistry I *will transfer as ASU's CHEM 1311* ***AND*** *CHEM 1111*	4		MATH 2414 (Major Support Course)	Calculus II *will transfer as ASU's MATH 2414*	4
MATH 2413 (Core 020N & Major Support Course)	Calculus I *will transfer as ASU's MATH 2413*	4		PHYS 2425 (Core 030N & Major Support Course)	University Physics I *will transfer as ASU's PHYS 2325* ***AND*** *PHYS 2125*	4
KINE 1164[1]	Introduction to Physical Fitness and Wellness *will transfer as ASU's PA RPE*	1		ENGR 1304 (Program Requirement)	Engineering Graphics *will transfer as ASU's ENGR 1304*	3
SPCH 1315 (Area A 091)	Public Speaking *will transfer as ASU's COMM 1315*	3				
	Total	**17**			TOTAL	**17**
Weatherford College Fall Semester Year 2		**sch**		**Weatherford College Spring Semester Year 2**		**Sch**
MATH 2415[2] (Major Support Course)	Calculus III *will transfer as ASU's MATH NENA*	4		ENGR 2304 (Program Requirement)	Programming for Engineers *will transfer as ASU's ENGR 2304*	3
PHYS 2426 (Core 030N & Major Support Course)	University Physics II *will transfer as ASU's PHYS 2326* ***AND*** *PHYS 2126*	4		ENGR 2302 (Program Requirement)	Engineering Mechanics- Dynamics *will transfer as ASU's ENGR 2302*	3
ENGR 1307 (Program Requirement)	Plane Surveying *will transfer as ASU's ENGR 1307*	3		GEOL 1403 **OR** BIOL 1408 **OR** BIOL 1409 (Major Support Course)	Physical Geology **OR** Biology for Non-Science Majors I **OR** Biology for Non-Science Majors II *will transfer as ASU's GEOL 1303/1103* ***OR*** *BIOL 1308/1108* ***OR*** *BIOL 1309/1109*	4
ENGR 2301 (Program Requirement)	Engineering Mechanics- Statics *will transfer as ASU's ENGR 2301*	3		ENGR 2332 (Major Support Course)	Mechanics of Materials *will transfer as ASU's ENGR 2332*	3
HIST 1302 (Core 060N)	United States History II *will transfer as ASU's HIST 1302*	3		Creative Arts (Core 050N)	Creative Arts *will transfer as ASU's Creative Arts*	3
	TOTAL	**17**			TOTAL	**16**
				TOTAL DEGREE HOURS		**67**

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[1] WC's KINE 1164 will transfer as ASU's PA RPE and is approved to substitute ASU's GS 1181 (Freshman Seminar Course & Major Support Course) by the David L. Hirschfeld Department of Engineering.

[2] MATH 2415 will transfer in as MATH NENA. MATH 2415 is approved to substitute MATH 3415 for the David L. Hirschfeld 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**
POLS 2305 (Core 070N)	Federal Government (Federal Constitution and Topics)	3		POLS 2306 (Core 070N)	Texas Government (Texas Constitution and Topics)	3
MATH 3324 (Major Support Course)	Applied Mathematics for Engineering	3		ENGR 3404 (Program Requirement)	Introduction to Fluid Mechanics	4
CENG 3361 (Program Requirement)	Structural Analysis I	3		Language, Philosophy and Culture (Core 040N)		3
ENGR 3331 (Program Requirement)	Engineering Materials	3		ENGR 2318 (Program Requirement)	Sustainable Development Principles	3
Social and Behavioral Sciences (Core 080N)		3		ENGR 3305 (Program Requirement)	Probability and Risk in Engineering	3
	TOTAL	**15**			TOTAL	**16**
ASU Fall Semester Year 2		**sch**		**ASU Spring Semester Year 2**		**Sch**
CENG/MATH/ Science Elective (adv) (Program Requirement)		3		CENG 3341 (Program Requirement)	Geotechnical Engineering	3
Design Elective (advanced) (Program Requirement)		3		CENG 3352 (Program Requirement)	Hydrology and Hydraulics	3
CENG 3351 (Program Requirement)	Introduction to Environmental Engineering	3		Technical Elective (advanced) (Program Requirement)		3
CENG 3311 (Program Requirement)	Introduction to Transportation Engineering	3		CENG 4380 (Program Requirement)	Civil Engineering Senior Design	3

Design Elective (advanced) (Program Requirement)		3		ENGR 4201 (Program Requirement)	Professional Engineering Practice	2
	TOTAL	**15**			TOTAL	**14**
				B.S.C.E. TOTAL DEGREE HOURS		**127**

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.