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

Weatherford College & Angelo State University Transfer Plan for Associate of Science (A.S.) Bachelor of Science in Mechanical Engineering (B.S.M.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
SPCH 1315 (Area A 091)	Public Speaking *will transfer as ASU's COMM 1315*	3		PHYS 2425 (Core 030N & Major Support Course)	University Physics I *will transfer as ASU's PHYS 2325* ***AND*** *PHYS 2125*	4
MATH 2413 (Core 020N & Major Support Course)	Calculus I *will transfer as ASU's MATH 2413*	4		ENGR 1304 (Program Requirement)	Engineering Graphics *will transfer as ASU's ENGR 1304*	3
KINE 1164[1]	Introduction to Physical Fitness and Wellness *will transfer as ASU's PA RPE*	1				
	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		GOVT 2305 (Core 070N)	Federal Government (Federal Constitution & Topics) *will transfer as ASU's POLS 2305*	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 2301 (Program Requirement)	Engineering Mechanics- Statics *will transfer as ASU's ENGR 2301*	3		ENGR 2305 (Program Requirement)	Electrical Circuits *Will transfer as ASU ENGR 2305*	3
ENGR 2304 (Program Requirement)	Programming for Engineers *wil transfer as ASU's ENGR 2304*	3		ENGR 2332 (Major Support Course)	Mechanics of Materials *will transfer as ASU's ENGR 2332*	3
Social & Behavioral Sciences (Core 080N)	*Will transfer as ASU's Social and Behavioral Sciences*	3		GEOL 1403 **OR** BIOL 1408 (Major Support Course)	Physical Geology **OR** Biology for Non-Science Majors I *will transfer as ASU's GEOL 1303/1103* ***OR*** *BIOL 1308/1108*	4
	TOTAL	**17**			TOTAL	**16**
				TOTAL DEGREE HOURS		**67**

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

[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.

Weatherford College & Angelo State University Transfer Plan for Associate of Science (A.S.) Bachelor of Science in Mechanical Engineering (B.S.M.E.)						
ASU Fall Semester Year 1		**sch**		**ASU Spring Semester Year 1**		**Sch**
MENG 2311 (Program Requirement)	Engineering Thermodynamics	3		POLS 2306 (Core 070N)	Texas Government (Texas Constitution and Topics)	3
MATH 3324 (Major Support Course)	Applied Mathematics for Engineering	3		ENGR 2318 (Program Requirement)	Sustainable Development Principles	3
HIST 1302 (Core 060N)	History of the United States, 1865 to Present	3		Language, Philosophy, and Culture (Core 040N)		3
ENGR 3404 (Program Requirement)	Introduction to Fluid Mechanics	4		MENG 3411 (Program Requirement)	Heat Transfer	4
Creative Arts (Core 050N)		3		ENGR 3305 (Program Requirement)	Probability and Risk in Engineering	3
	TOTAL	**16**			TOTAL	**16**
ASU Fall Semester Year 2		**sch**		**ASU Spring Semester Year 2**		**Sch**
ENGR 3331 (Program Requirement)	Engineering Materials	3		ENGR 4201 (Program Requirement)	Professional Engineering Practice	2
MENG Elective (Program Requirement)		3		MENG 4380 (Program Requirement)	Mechanical Engineering Senior Design II	3
MENG 3441 (Program Requirement)	Mechanisms and Dynamics of Machines	4		MENG Technical Elective (Program Requirement)		3
MENG Design Elective (Program Requirement)		3		MENG Design Elective (Program Requirement)		3

MENG 4279 (Program Requirement)	Mechanical Engineering Senior Design I	2		MENG 3351 (Program Requirement)	Measurement & Instrumentation	3
	TOTAL	**15**			TOTAL	**14**
				B.S.C.E. TOTAL DEGREE HOURS		**128**

Mechanical 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 2301* - Engineering Mechanics – Statics
- Engineering 2302* - Engineering Mechanics – Dynamics
- Engineering 2305 – Electrical Circuits
- 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.