



Bachelor of Science in
 Mechanical Engineering
 Western Texas College
 With Summer Semesters
 2+2 Transfer Guide



Western Texas College & Angelo State University Transfer Plan for Bachelor of Science in Mechanical Engineering (B.S.M.E.) with summer semesters					
Western Texas College Fall Semester Year 1		sch	Western Texas College Spring Semester Year 1		sch
MATH 1314 ¹ (Core 020N)		3	CHEM 1311 (Area B 090N & Major Support Course)	Prerequisite Requirement: <i>MATH 1314</i>	3
ENGL 1301 (Core 010N)		3	CHEM 1111 (Major Support Course)	Prerequisite Requirement: <i>MATH 1314</i>	1
Language, Philosophy, and Culture (Core 040N)		3	MATH 1316 ¹	Prerequisite Requirement: <i>MATH 1314</i>	3
Social and Behavioral Sciences (Core 080N)		3	ENGL 1302 (Core 010N)	Prerequisite Requirement: <i>ENGL 1301</i>	3
HIST 1301 (Core 060N)		3	SPCH 1315 (Area A 091)		3
			GOVT 2305 (Core 070N)		3
	TOTAL	15		TOTAL	16
Western Texas College Summer I Semester Year 1		sch	Western Texas College Summer II Semester Year 1		sch
MATH 2413 (Cal I) (Major Support Course)	Prerequisite Requirement: <i>MATH 1314 & MATH 1316</i>	4	Creative Arts (Core 050N)		3
	TOTAL	4		TOTAL	3
Western Texas College Fall Semester Year 2		sch	Western Texas College Spring Semester Year 2		sch
HIST 1302 (Core 060N)		3	PHYS 2326 (Core 030N & Major Support Course)	Prerequisite Requirement: <i>PHYS 2325/2125</i>	3
PHYS 2325 (Core 030N & Major)	Prerequisite Requirement: <i>MATH 2413</i>	3	PHYS 2126 (Major)	Prerequisite Requirement: <i>PHYS 2325/2125</i>	1

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Support Course)			Support Course)		
PHYS 2125 (Major Support Course)	Prerequisite Requirement: <i>MATH 2413</i>	1	MATH 2415 (Cal III) ³ (Major Support Course)	Prerequisite Requirement: <i>MATH 2414</i>	4
MATH 2414 (Cal II) (Major Support Course)	Prerequisite Requirement: <i>MATH 2413</i>	4	GOVT 2306 (Core 070N)		3
MATH/Sci Elective ² (Program Requirement)		3	ENGR 2318 (Program Requirement)	Prerequisite Requirement: <i>MATH 1314</i>	3
			Core 090 Course ⁴		3
	TOTAL	14		TOTAL	17
			TOTAL CREDIT HOURS		66⁵

Indicates course taken at ASU through co-enrollment.

¹MATH 1314 and MATH 1316 are not required for the degree; however, the courses are prerequisites to enroll in MATH 2413. Student may be eligible to enroll directly in MATH 2413 if the student meets other qualifications set by WTC.

²WTC offers equivalent Biology courses to meet this requirement at ASU. ASU requires 3 credits of one of the following courses offered at WTC: BIOL 1306/1106 OR BIOL 1406; BIOL 1307/1107 OR BIOL 1407; BIOL 1408; OR BIOL 1409.

³MATH 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.

⁴WTC's catalog lists that students can take either MATH 1350, EDUC 1300, PSYC 1300, PHED 1301, PHED 1338, or SOCI 2340 to satisfy the 3 remaining hours for the Core 090 requirement. Either of these courses are approved to substitute ASU's GS 1181 (Freshman Seminar) requirement for the purpose of this agreement with the David L. Hirschfeld Department of Engineering.

⁵Total degree hours for WTC does not include the co-enrolled Engineering course. However, this course is included in the overall hours for ASU.

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ASU Fall Semester Year 1		sch	ASU Spring Semester Year 1		sch
ENGR 1201 (Program Requirement)		2	ENGR 2332 (Program Requirement)	Prerequisite Requirement: <i>ENGR 2301 & MATH 2414</i>	3
MATH 3324 (Major Support Course)	Prerequisite Requirement: <i>MATH 2414</i>	3	ENGR 2302 (Program Requirement)	Prerequisite Requirement: <i>ENGR 2301</i>	3
ENGR 2301 (Program Requirement)	Prerequisite Requirement: <i>PHYS 2325/2125 & MATH 2414</i>	3	ENGR 1304 (Program Requirement)	Prerequisite Requirement: <i>ENGR 1201</i>	3
ENGR 2305 (Program Requirement)	Prerequisite Requirement: <i>MATH 2413 & PHYS 2326/2126</i>	3	ENGR 3305 (Program Requirement)	Prerequisite Requirement: <i>MATH 2415 OR MATH 3415</i>	3
Programming Course: CS 1314 OR CS 1336 (Program Requirement)		3			
	TOTAL	14		TOTAL	12
ASU Fall Semester Year 2		sch	ASU Spring Semester Year 2		sch
MENG 2311 (Program Requirement)	Prerequisite Requirement: <i>MATH 2414</i>	3	MENG Technical Elective (Program Requirement)	Prerequisite Requirement: <i>Varies by Course</i>	3
ENGR 3404 (Program Requirement)	Prerequisite Requirement: <i>ENGR 2302 & MENG Major</i>	4	ENGR 4201 (Program Requirement)	Prerequisite Requirement: <i>Sr. Standing</i>	2
MENG 3441 (Program Requirement)	Prerequisite Requirement: <i>ENGR 2302 & MATH 3324</i>	4	MENG 3351 (Program Requirement)	Prerequisite Requirement: <i>ENGR 2305, ENGR 3305 & MATH 3324</i>	3
ENGR 3331 (Program Requirement)	Prerequisite Requirement: <i>CHEM 1311/1111 & ENGR 2332</i>	3	MENG 4279 (Program Requirement)	Prerequisite Requirement: <i>Sr. Standing</i>	2
			MENG 3411 (Program Requirement)	Prerequisite Requirement: <i>MENG 2311; MATH 3324; completion, or concurrent enrollment in ENGR 3404</i>	4
	TOTAL	14		TOTAL	14

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ASU Fall Semester Year 3		sch			
MENG Design Elective (Program Requirement)	Prerequisite Requirement: <i>Varies by Course</i>	3			
MENG Design Elective (Program Requirement)	Prerequisite Requirement: <i>Varies by Course</i>	3			
MENG 4380 (Program Requirement)	Prerequisite Requirement: <i>Sr. Standing</i>	3			
MENG Elective (Program Requirement)	Prerequisite Requirement: <i>Varies by Course</i>	3			
	TOTAL	12			
B.S.M.E. TOTAL DEGREE HOURS					135⁶

⁶ Overall hours does include the hours from the co-enrolled Engineering course (ENGR 2318).

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.



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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.

Most co-enrolled courses through ASU are currently offered in-person at the ASU campus. Select ASU co-enrolled courses are offered online. It is encouraged for students to reach out to their academic advisor at each institution to discuss course options and sequences.