



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



<b>Tyler Junior College &amp; Angelo State University Transfer Plan for Associate of Science in Engineering - Mechanical and Bachelor of Science in Mechanical Engineering (B.S.M.E.)</b>					
<b>Cisco College Fall Semester Year 1</b>		<b>sch</b>	<b>Cisco College Spring Semester Year 1</b>		<b>sch</b>
ENGL 1301	Composition I <i>will transfer as ASU's ENGL 1301</i>	3	HIST 1302	United States History II <i>will transfer as ASU's HIST 1302</i>	3
MATH 2413	Calculus I <i>will transfer as ASU's MATH 2413</i>	4	MATH 2414	Calc II w/Analytic Geometry <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	ENGL 2311	Technical & Business Writing <i>will transfer as ASU's ENGL 2311</i>	3
HIST 1301	United States History I <i>will transfer as ASU's HIST 1301</i>	3	ENGR 1304	Engineering Graphics <i>will transfer as ASU's ENGR 1304</i>	3
	<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>17</b>
<b>Cisco College Fall Semester Year 2</b>		<b>sch</b>	<b>Cisco College Spring Semester Year 2</b>		<b>sch</b>
GOVT 2305	Federal Government <i>will transfer as ASU's POLS 2305</i>	3	MATH 2320 <sup>2</sup>	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 <sup>1</sup>	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
ENGR 2304	Programming for Engineers <i>will transfer as ASU's ENGR 2304</i>	3	ENGR 2305/2105 <sup>3</sup>	Electrical Circuits I + Lab <i>will transfer as ASU's ENGR 2305</i>	4
	<b>TOTAL</b>	<b>17</b>		<b>TOTAL</b>	<b>16</b>
				<b>TOTAL DEGREE HOURS</b>	<b>66</b>



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<sup>1</sup>MATH 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.

<sup>2</sup>MATH 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.

<sup>3</sup>ENGR 2105 is approved to substitute ASU's GS 1181 course by the DLH Department of Engineering.

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<b>ASU Fall Semester Year 1</b>			<b>sch</b>	<b>ASU Spring Semester Year 1</b>		<b>sch</b>
COMM 1315	Public Speaking		3	ENGR 2318	Sustainable Development Principles	3
Creative Arts			3	ENGR 2332	Mechanics of Materials	3
MATH 3301	Linear Algebra		3	ENGR 3305	Probability and Risk in Engineering	3
MENG 2311	Engineering Thermodynamics		3	MENG 3351	Measurement & Instrumentation	3
	TOTAL		<b>12</b>		TOTAL	<b>12</b>
<b>ASU Fall Semester Year 2</b>			<b>sch</b>	<b>ASU Spring Semester Year 2</b>		<b>sch</b>
ENGR 3331	Engineering Materials		3	MENG 4279	Mechanical Engineering Senior Design I	2
MENG 3441	Mechanisms and Dynamics of Machines		4	MENG elective	Introductory Elective (3352 or 3353)	3
ENGR 3404	Introduction to Fluid Mechanics		4	MENG 3411	Heat Transfer	4
Mathematics/ Science elective			3	MENG Technical Elective		3
				ENGR 4201		2
	TOTAL		<b>14</b>		TOTAL	<b>14</b>
<b>ASU Fall Semester Year 3</b>			<b>sch</b>			
MENG 4380	Mechanical Engineering Senior Design II		3			
MENG Design Elective			3			
MENG Design Elective			3			



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Language, Philosophy, and Culture		3			
	TOTAL	12			
				<b>B.S.M.E. Complete Total</b>	<b>130</b>

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

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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.