

**ARTICULATION AGREEMENT: Tarrant County College and Texas Tech University  
2+2 Program Leading to Bachelor of Science in Mechanical Engineering**

**FIRST YEAR**

		<i>Fall</i>				<i>Spring</i>			
TTU	TCC			TTU	TCC				
ENGR 1315	ENGR 1201	Intro to Engineering	2	E GR 1206	ENGR 1204	Engineering Graphics	2		
MATH 1351	MATH 2413	Calculus I	4	MATH 1352	MATH 2414	Calculus II	4		
CHEM 1307	CHEM 1311	Principles of Chemistry I	3	PHYS 1408	PHYS 2425	Physics I	4		
CHEM 1107	CHEM 1111	Chemistry I Laboratory	1	ENGL 1302	ENGL 1302	Grammar & Composition II	3		
ENGL 1301	ENGL 1301	Grammar & Composition I	3	HIST 2301	HIST 1302	American History from 1877	3		
HIST 2300	HIST 1301	American History to 1877	3						
			<u>16</u>						<u>16</u>

**SECOND YEAR**

		<i>Fall</i>				<i>Spring</i>			
TTU	TCC			TTU	TCC				
ME 2315	ENGR 2304	Computer Aided Analysis	3	ME 2302	ENGR 2302	Dynamics	3		
ME 2301	ENGR 2301	Statics	3	EE 3301	ENGR 2305	Circuits Analysis	3		
MATH 1352	MATH 2415	Calculus III	4	MATH 3350	MATH 2320	Differential Equations	3		
PHYS 2401	PHYS 2426	Physics II	4	POLS 2302	GOVT 2302	Am. Gov. Policies	3		
POLS 2301	GOVT 1301	Natl & State Govt	3	COMS 1300	COMS 1311	Speech Communications	3		
			<u>17</u>						<u>15</u>

**THIRD YEAR**

		<i>Fall</i>				<i>Spring</i>			
TTU	TCC			TTU	TCC				
ME 2311		Materials Science	3	ME 4370		Intro to Design	3		
ME 3464	ENGR 2332	Mechanics of Solids	4	ME 3228		Materials & Mechanics Lab	2		
ME 3164		FEA Lab	1	ME 3333		Systems & Vibrations	3		
ME 2322		Thermodynamics I	3	ME 3322		Thermodynamics II	3		
MATH 2360	MATH 2318	Linear Algebra	3	ME 3370		Fluid Mechanics	3		
ART 1309	ARTS 1301	Art Appreciation*	3	ME 3165		CFD Lab	1		
			<u>17</u>	PHIL 2350	PHIL 1304	World Religions**	3		
									<u>18</u>

**FOURTH YEAR**

		<i>Fall</i>				<i>Spring</i>			
TTU	TCC			TTU	TCC				
ME 4370		Design I	3	ME 4371		Design II	3		
ME 4334		Control of Dynamic Systems	3	ME 3251		Thermal-Fluids Lab	2		
ME 4234		Controls Lab	2	MATH 3342		Math Statistics for Engineers	3		
ME 3371		Heat Transfer	3			Department Elective	3		
IE 3301		Engineering Economics	3			Department Elective	3		
		Department Elective	3						
			<u>17</u>						<u>14</u>

total 130

Substitution Options:

\* Visual/Performing Arts electives

\*\* Humanities/Multicultural electives

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Erma C. Johnson Hadley  
Interim Chancellor  
Tarrant County College

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Dr. Jon Strauss  
Interim Dean, Edward E. Whitacre Jr. College of Engineering  
Texas Tech University