

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

**FIRST YEAR (Lone Star College System)**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
ENGL 1301	ENGL 1301	Composition & Rhetoric I	3	ENGL 1302	ENGL 1302	Composition & Rhetoric II	3
HIST 2300	HIST 1301	American History to 1877	3	HIST 2301	HIST 1302	American History Since 1877	3
MATH 1351	MATH 2413	Calculus I	4	MATH 1352	MATH 2414	Calculus II	4
CHEM 1307	CHEM 1411	Principles of Chemistry I	4	PHYS 1408	PHYS 2425	Mechanics & Heat	4
CHEM 1107					KINE	Physical Education	1
		Visual & Performing Arts	3				
			<u>17</u>				<u>15</u>

**SECOND YEAR (Lone Star College System)**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
POLS 2301	GOVT 1301	American Government I	3	POLS 2302	GOVT 2302	American Government II	3
EGR1206	ENGR 1304	Engineering Graphics	3			Oral Communications	3
		Science Elective	4	ME 2301	ENGR 2301	Statics	3
MATH 1352	MATH 2415	Calculus III	4	MATH3350	MATH2320	Differential Equations	3
PHYS 2401	PHYS 2426	Electricity, Magnetism & Light	4			Humanities	3
						Behavioral Sciences	3
			<u>18</u>				<u>18</u>

**Total Transfer Credits From Lone Star College System      68**

**THIRD YEAR (Texas Tech University)**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
ENGR1315		Intro to Engineering	3	ME 2315		Computer Aided Analysis	3
ME3403		Strength of Materials	4	ME 3322		Thermodynamics II	3
ME 3164		FEA Lab	1	ME 4370		Intro to Design	3
ME 2322		Thermodynamics I	3	ME 3370		Fluid Mechanics	3
ME 3302		Dynamics	3	ME 3165		CFD Lab	1
ME 2311		Materials Science	3	MATH 3342		Math Statistics for Engineers	3
			<u>17</u>				<u>16</u>

**FOURTH YEAR (Texas Tech University)**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
ME 4370		Design I	3	ME 4371		Design II	3
ME 3371		Heat Transfer	3	ME 3251		Thermal-Fluids Lab	2
ME 3333		Systems & Vibrations	3	ME 4334		Control of Dynamic Systems	3
ME 3228		Materials & Mechanics Lab	2	ME 4234		Controls Lab	2
IE 3301		Engineering Economics	3			Department Elective	3
		Department Elective	3			Department Elective	3
			<u>17</u>				<u>16</u>

**Total Credit Requirements      134**

**ARTICULATION AGREEMENT: Lone Star College System and Texas Tech University  
2+2 Program Leading to Bachelor of Science in Civil Engineering**

**FIRST YEAR**

<i>Fall</i>				<i>Spring</i>			
<b>TTU</b>	<b>LSCS</b>			<b>TTU</b>	<b>LSCS</b>		
ENGL 1301	ENGL 1301	Grammar & Composition I	3	ENGL 1302	ENGL 1302	Grammar & Composition II	3
HIST 2300	HIST 1301	American History to 1877	3	HIST 2301	HIST 1302	American History from 1877	3
ENGR 1315	ENGR 1301	Intro to Engineering	3	MATH 1352	MATH 2414	Calculus II	4
MATH 1351	MATH 2413	Calculus I	4	CHEM 1308	CHEM 1312	General Chemistry II	3
CHEM 1307	CHEM 1311	General Chemistry I	3	CHEM 1108	CHEM 1112	General Chemistry II Lab	1
CHEM 1107	CHEM 1111	General Chemistry I Lab	1			Humanities	3
			<u>17</u>				<u>17</u>

**SECOND YEAR**

<i>Fall</i>				<i>Spring</i>			
<b>TTU</b>	<b>LSCS</b>			<b>TTU</b>	<b>LSCS</b>		
POLS 1301	GOVT 1301	Natl & State Govt	3	POLS 2302	GOVT 2302	Am. Gov. Policies	3
PHYS 1408	PHYS 2425	Physics I	4	PHYS 2401	PHYS 2426	Physics II*	4
MATH 2350	MATH 2415	Calculus III	4	MATH 3350	MATH 2320	Differential Equations	3
E GR 1207	ENGR 1304	Engineering Graphics	2	CE 2301	ENGR 2301	Statics	3
		Oral Communications	3			Visual & Performing Arts	3
			<u>16</u>				<u>16</u>

**THIRD YEAR**

<i>Fall</i>				<i>Spring</i>			
<b>TTU</b>	<b>LSCS</b>			<b>TTU</b>	<b>LSCS</b>		
CE 3302		Dynamics	3	CE 3354		Intro to Hydrology	3
CE 3303		Mechanics of Solids	3	CE 3321		Intro to Geotechnical Engr	3
CE 2101		Constr Materials Lab	1	CE 3121		Geotechnical Engr Lab	1
CE 1130		Civil Engineering Seminar	1	CE 3105		Mechanics of Fluids Lab	1
CE 3305		Mechanics of Fluids	3	CE 3309		Environmental Engr I	3
CE 3103		Mechanics of Solids Lab	1	CE 3171		Environmental Engr Lab	1
CE 3440		Structural Analysis I	4	CE 3341		Principles of Struc Design	3
			<u>16</u>				<u>15</u>

**FOURTH YEAR**

<i>Fall</i>				<i>Spring</i>			
<b>TTU</b>	<b>LSCS</b>			<b>TTU</b>	<b>LSCS</b>		
CE 3372		Water Systems Design	3	CE 4330		Design of Engr Systems	3
ENGR 4392		Engr Ethics & Professionalism	2	ENGR 4101		FE Exam Review	1
CTEC 2301		Surveying	2	IE 3341		Engr Statistics**	3
CE 4343		Design of Concrete Strucs	3			Design Elective	3
CE 4361		Transport Engineering	3			Design Elective	3
IE 3301		Engineering Economics	3			Sr. Elective	3
			<u>16</u>				<u>16</u>

total 129

**ARTICULATION AGREEMENT: Lone Star College System and Texas Tech University  
2+2 Program Leading to Bachelor of Science in Electrical Engineering**

**FIRST YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
ENGL 1301	ENGL 1301	Composition I	3	ENGL 1302	ENGL 1302	Composition II	3
HIST 2300	HIST 1301	American History to 1877	3	HIST 2301	HIST 1302	American History from 1877	3
MATH 1351	MATH 2413	Calculus I	4	ART 1309	ARTS 1301	Art Appreciation*	3
CHEM 1307	CHEM 1411	Principles of Chemistry I	4	MATH 1352	MATH 2414	Calculus II	4
CHEM 1107				PHYS 1408	PHYS 2425	Mechanics & Heat	4
ENGR 1315		Intro to Engr (TTU Distance)	3				
			<u>17</u>				<u>17</u>

**SECOND YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
MATH 1352	MATH 2415	Calculus III	4	POLS 2302	GOVT 2302	American Government II	3
PHYS 2401	PHYS 2426	Physics II	4	COMS 1300	SPCH 1311	Speech Communications	3
POLS 2301	GOVT 1301	American Government I	3	PHIL 2350	PHIL 1304	World Religions**	3
ME 2364		Statics (TTU Distance)	3	EE 1305	COSC 1420	C Language	4
				ME 2322		Thermo I (TTU Distance)	3
			<u>14</u>				<u>16</u>

**TRANSFER SUMMER**

<i>Session I</i>				<i>Session II</i>			
TTU	LSCS			TTU	LSCS		
EE 3311		Electronics I	3	EE 2372		Mod Dig Sys Design	3
EE 3302		Circuits Analysis	3	EE 3303		Linear Systems Analysis	3
			<u>6</u>				<u>6</u>

**THIRD YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
EE 3331		Proj Lab I	3	EE 3332		Proj Lab II	3
EE 3312		Electronics II	3	EE3323		Prin of Comm Systems	3
MATH 3350		Differential Equations	3	MATH 3342		Statistics for Engrs	3
EE 3362		Dig Design With Microctrlrs	3	MATH 3351		Partial Diff Equations	3
			<u>12</u>				<u>12</u>

**FOURTH YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
EE 3333		Proj Lab III	3	EE 4333		Proj Lab IV	3
EE 3353		Feedback Control Sys	3	EE 4xxx		Elec Engr Elective	3
EE 4xxx		Elec Engr Elective	3	EE 4xxx		Elec Engr Elective	3
IE 3301		Engineering Economics	3	EE 4xxx		Elec Engr Elective	3
EE 3341		Electromag Theory I	3	EE 3342		Electromag Theory II	3
			<u>15</u>				<u>15</u>

**INTERNSHIP SUMMER**

TTU	LSCS		
EE 4334		Proj Lab V (Internship)	3

**total 133**

Substitution Options:

- \* Visual/Performing Arts electives
- \*\* Humanities/Multicultural electives

**ARTICULATION AGREEMENT: Lone Star College System and Texas Tech University  
1+3 Program Leading to Bachelor of Science in Chemical Engineering**

**FIRST YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
ENGL 1301	ENGL 1301	Composition I	3	ENGL 1302	ENGL 1302	Composition II	3
HIST 2300	HIST 1301	American History to 1877	3	HIST 2301		American History after 1877	3
MATH 1351	MATH 2413	Calculus I	4	MATH 1352	MATH 2414	Calculus II	4
CHEM 1307	CHEM 1411	Principles of Chem I	4	CHEM 1308	CHEM 1412	Principles of Chem II	4
CHEM 1107				CHEM 1108			
ENGR 1315		Intro to Engr (TTU Distance)	2	PHYS 1408	PHYS 2425	Physics I	4
			<u>16</u>				<u>18</u>

**SECOND YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
MATH 2350		Calculus III	3	MATH 3350		Differential Equations	3
CHE 1121		Freshman Seminar	1	CHE 2421		Thermo I	4
CHE 2410		Intro to Chem Processes	4	CHE 3330		Materials	3
CHEM 3305		Organic Chem I	3	CHE 2306		Exposition of Tech Info	3
CHEM 3105		Organic Chem I Lab	2	PHYS 2401		Physics II	4
CHE 1305		Comp Prog for Engrs	3				
			<u>16</u>				<u>17</u>

**THIRD YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
CHE 3315		Fluid Mechanics	3	CHEM 3308		Physical Chem II	3
CHE 3322		Chem Engr Thermo II	3	CHEM 3108		Physical Chem II Lab	1
CHE 3326		Heat Transfer	3	CHE 3341		Mass Transfer Operations	3
CHEM		Chemistry Elective	4	CHE 3232		Chem Transport Lab	2
POLS 1301		American Govt., Organization	3	CHE 4323		Chem Reaction Engr	3
				POLS 2302		Public Policy	3
			<u>16</u>				<u>15</u>

**FOURTH YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
CHE 4232		Unit Ops Lab	2	CHE 4153		Process Control Lab	1
CHE 3353		Process Control	3	CHE 4555		Chem Proc Design Simul	5
CHE		Chem Engr Elective	3	CHE		Chem Engr Elective	3
CHE		Chem Engr Elective	3	CHEM		Chemistry Elective	4
IE 3301		Engineering Economics	3	ART 1309		Art Appreciation***	3
PHIL 2350		World Religions**	3				
			<u>17</u>				<u>16</u>

Substitution Options:

\*\* Humanities/Multicultural electives

\*\*\* Visual/Performing Arts electives

total 131

**ARTICULATION AGREEMENT: Lone Star College System and Texas Tech University  
2+3 Program Leading to Bachelor of Science in Chemical Engineering**

**FIRST YEAR**

		<i>Fall</i>				<i>Spring</i>	
TTU	LSCS			TTU	LSCS		
ENGL 1301	ENGL 1301	Composition I	3	ENGL 1302	ENGL 1302	Composition II	3
MATH 1351	MATH 2313	Calculus I	4	MATH 1352	MATH 2314	Calculus II	4
CHEM 1307	CHEM 1411	General Chemistry I	4	CHEM 1308	1412	General Chemistry II	4
CHEM 1107			1	CHEM 1108			
ENGR 1315	ENGR 1201	Intro to Engineering	2	PHYS 1408	PHYS 2425	Physics I	4
			<u>14</u>				<u>15</u>

**SECOND YEAR**

		<i>Fall</i>				<i>Spring</i>	
TTU	LSCS			TTU	LSCS		
MATH 1352	MATH 2315	Calculus III	4	MATH 3350	MATH 2320	Differential Equations	3
PHYS 2401	PHYS 2426	Physics II	4	CHE 1305		Comp Prog for Engrs*	3
CHEM 3305		Organic Chem I	3	PHIL 2350	PHIL 1304	World Religions**	3
CHEM 3105		Organic Chem I Lab	2	HIST 2301	HIST 1302	American History from 1877	3
HIST 2300	HIST 1301	American History to 1877	3				
			<u>16</u>				<u>12</u>

**THIRD YEAR**

		<i>Fall</i>				<i>Spring</i>	
TTU	LSCS			TTU	LSCS		
CHE 1121		Chemical Engr Seminar	1	CHE 2306		Exposition of Tech Info	3
CHE 2410		Intro to Chemical Processes	4	CHE 2421		Thermo I	4
CHEM		Chemistry Elective	4	CHE 3330		Materials	3
POLS 1301	GOVT 2301	American Government I	3	POLS 2302	GOVT 2302	American Government II	3
			<u>12</u>				<u>13</u>

**FOURTH YEAR**

		<i>Fall</i>				<i>Spring</i>	
TTU	LSCS			TTU	LSCS		
CHE 3315		Fluid Mechanics	3	CHEM 3308		Phys Chem II	3
CHE 3322		Thermo II	3	CHEM 3108		Phys Chem II Laboratory	1
CHE 3326		Heat Transfer	3	CHE 3232		Transport Lab	2
CHEM		Chemistry Elective	4	CHE 3341		Mass Transfer	3
			<u>13</u>	CHE 4323		Chemical Reaction Engr	3
							<u>12</u>

**FIFTH YEAR**

		<i>Fall</i>				<i>Spring</i>	
TTU	LSCS			TTU	LSCS		
CHE 3353		Process Control	3	CHE 4153		Process Control Lab	1
CHE 4232		Unit Ops Laboratory	2	CHE 4555		Chem Proc Design Simul	5
CHE		Chem Engr Elective	3	CHE		Chem Engr Elective	3
I E 3301		Engineering Economics	3	CHE		Chem Engr Elective	3
ART 1309	ARTS 1301	Art Appreciation***	3				
			<u>14</u>				<u>12</u>

Substitution Options:

- \* Take if ENGR 1201 does not teach MatLab or equiv.
- \*\* Humanities/Multicultural electives
- \*\*\* Visual/Performing Arts electives

total 133

**ARTICULATION AGREEMENT: Lone Star College System and Texas Tech University  
2+2 Program Leading to Bachelor of Science in Construction Engineering**

**FIRST YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
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	LSCS			TTU	LSCS		
CE 2301	ENGR 2301	Statics	3	EE 3301	ENGR 2305	Circuits Analysis	3
MATH 2350	MATH 2415	Calculus III	4	MATH 3350	MATH 2320	Differential Equations	3
POLS 1301	GOVT 1301	Natl & State Govt	3	GEOL 1303	GEOL 1303	Physical Geology	3
PHIL 2350	PHIL 1304	World Religions**	3	GEOL 1101	GEOL 1101	Physical Geology Lab	1
ART 1309	ARTS 1301	Art Appreciation*	3	POLS 2302	GOVT 2302	Am. Gov. Policies	3
			3	CE 3303		Mechanics of Materials	3
			<u>16</u>				<u>16</u>

**THIRD YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
ConE 3310		Constr Struct Analysis & Design	3	CE 2101		Construction Materials Lab	1
ConE 3312		Constr Foundations & Earthwork	3	ConE 4322		Constr Management	3
IE 3301		Engineering Economics	3	ConE 3300		Constr Equipment	3
CE 3121		Geotechnical Lab	1	ConE 4300		Constr Safety	3
ConE 4320		Constr Cost Estimating	3	ConE 2300		Constr Mat'ls & Blue Prints	3
ConE 2302		Surveying	3	COMS 2300	COMS ???	Public Speaking	3
			<u>16</u>				<u>16</u>

**FOURTH YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	LSCS			TTU	LSCS		
ConE 4220		Constr Capstone	2	ConE 4100		Constr Internship	1
ConE 4310		Constr Steel Structure	3	ConE 4312		Constr Concrete Structure	3
ConE 3302		MEP Systems & Design	3	ConE 4324		Constr Contracts & Specs	3
MATH 3342		Math Statistics for Engineers	3	IE 3372		Management Systems Control	3
		Engr or Business Elective	3	CE 3305		Math/Science Elective	3
			<u>14</u>			Fluid Mechanics	3
							<u>16</u>

total 126

Substitution Options:

- \* Visual/Performing Arts electives
- \*\* Humanities/Multicultural electives

**ARTICULATION AGREEMENT: Lone Star College System and Texas Tech University  
2+2 Program Leading to Bachelor of Science in Petroleum Engineering**

**FIRST YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	EPCC			TTU	EPCC		
PETR 1101	ENGR 1201	Intro to Engineering	2			VPA/Multicultural Elective	3
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>17</u>

**SECOND YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	EPCC			TTU	EPCC		
PETR 1305	COSC XXXX	Engineering Analysis	3	ME 2302	ENGR 2302	Dynamics	3
ME 2301	ENGR 2301	Statics	3	MATH 3350	MATH 2320	Differential Equations	3
MATH 2350	MATH 2415	Calculus III	4	GEOL 1403	GEOL 1303	Physical Geology	4
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>16</u>

**TRANSFER SUMMER**

<i>Summer I</i>				<i>Summer II</i>			
TTU	EPCC			TTU	EPCC		
GEOL 3302		Structural Geology	3	ME 3370		Fluid Mechanics	3

**THIRD YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	EPCC			TTU	EPCC		
PETR 2301		Petr Development Mthds	3	ME 3370		Fluid Mechanics	3
PETR 3402		Reservoir Rock Properties	4	GEOL 4324		Hydrocarbons	3
PETR 2302		Reservoir Fluid Properties	3	PETR 3304		Formation Evaluation	3
ME 3464	ENGR 2332	Mechanics of Solids	4	PETR 3306		Reservoir Engineering	3
ME 2322		Thermodynamics I	3	PETR 3308		Engr Communications	3
			<u>17</u>	MATH 3342		Engr Statistics	3
							<u>18</u>

**FOURTH YEAR**

<i>Fall</i>				<i>Spring</i>			
TTU	EPCC			TTU	EPCC		
PETR 4303		Petr Production Methods	3	PETR 4300		Property Eval & Mngmt	3
PETR 4306		Enhanced Oil Recov Proc	3	PETR 4308		Adv. Reservoir Engr	3
PETR 4407		Drilling Engr	4	PETR 4309		Well Compl, Prod, Fac & Stim	3
PETR 4405		Natural Gas Engr	4	PETR 43XX		Petr Engr Elective	3
IE 3301		Engineering Economics	3	ENGR 4392		Engineering Ethics	3
PETR 4121		PE Seminar	1				
			<u>18</u>				<u>15</u>

total 134

Substitution Options:

\* Visual/Performing Arts electives

\*\* Humanities/Multicultural electives

**ARTICULATION AGREEMENT: Lone Star College System and Texas Tech University  
2+2 Program Leading to Bachelor of Science in Industrial Engineering**

**FIRST YEAR**

		<i>Fall</i>				<i>Spring</i>	
TTU	EPCC			TTU	EPCC		
ENGR 1315	ENGR 1201	Intro to Engineering	2	E GR 1206	ENGR 1304	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	CHEM 1308	CHEM 1412	Chem II class	3
CHEM 1107	CHEM 1111	Chemistry I Laboratory	1	CHEM 1108	CHEM 1412	Chem II lab	1
ENGL 1301	ENGL 1301	Grammar & Composition I	3	ENGL 1302	ENGL 1302	Grammar & Composition II	3
HIST 2300	HIST 1301	American History to 1877	3	HIST 2301	HIST 1302	American History from 1877	3
			<hr/> 16				<hr/> 16

**SECOND YEAR**

		<i>Fall</i>				<i>Spring</i>	
TTU	EPCC			TTU	EPCC		
ME/CE 2301	ENGR 2301	Statics	3	ME 3302	ENGR 2302	Dynamics	3
PHYS 1408	PHYS 2425	Physics I	4	PHYS 2401	PHYS 2426	Physics II	4
MATH 2350	MATH 2415	Calculus III	4	MATH 3350	MATH 2320	Differential Equations	3
ENGR 2331	SPCH 1321	Speech Communications	3	EE 3301	ENGR 2305	Circuits Analysis	3
POLS 2301	GOVT 1301	Natl & State Govt	3	POLS 2302	GOVT 2302	Am. Gov. Policies	3
			<hr/> 17				<hr/> 16

**THIRD YEAR**

		<i>Fall</i>				<i>Spring</i>	
TTU	EPCC			TTU	EPCC		
ME 2311		Materials Science	3	I E 2301		Eng Design	3
I E 3301		Engineering Economics	3	I E 3351		Manufacturing Eng	3
I E 1101		I E Seminar	1	I E 3341		Eng Statistics	3
ME 2322		Thermodynamics I	3	I E 3311		Operations Research I	3
SOC 1301	SOCI 1301	Sociology(social sci)	3	I E elective			3
ART 1309	ARTS 1301	Art Appreciation*	3				
			<hr/> 16				<hr/> 15

**FOURTH YEAR**

		<i>Fall</i>				<i>Spring</i>	
TTU	EPCC			TTU	EPCC		
PHIL 2350	PHIL 1304	World Religions**	3	I E 4361		Eng Design for People	3
I E 3343		Quality Assurance	3	eng elective			3
I E 3371		Production Control	3	IE 3341		Math Statistics for Engineers	3
I E 3372		Mgmt Systems Control	3	I E 4333		Sr Design Project	3
I E 3411		Operations Research II	3				
I E 3361		Work Analysis & Design	3				
			<hr/> 18				<hr/> 12

total 126

Substitution Options:

\* Visual/Performing Arts electives

\*\* Humanities/Multicultural electives