



Texas Tech University and Midland College  
Course Articulation  
Pre-Engineering Curriculum



Midland College	MC Course Title	Texas Tech University	Degree Applicability (Substitution/Exception)	Chemical	Civil	Computer	Computer Sci#	Construction	Electrical	Environmental	Industrial	Mechanical	Petroleum
ENGL 1301	Composition I	ENGL 1301		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ENGL 1302	Composition II	ENGL 1302		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MATH 2413	Calculus I	MATH 1451		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MATH 2414	Calculus II	MATH 1452		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MATH 2415	Calculus III	MATH 2450		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MATH 2420	Differential Equations	MATH 2---	MATH3350/2---*	✓	✓	✓		✓	✓	✓	✓	✓	✓
BIOL 1406	Biology I	BIOL 1403					✓			✓			
BIOL 1407	Biology II	BIOL 1404								✓			
CHEM 1411	General Chemistry I	CHEM 1307 & 1107		✓	✓			✓	✓	✓	✓	✓	✓
CHEM 1412	General Chemistry II	CHEM 1308 & 1108		✓	✓					✓	✓		
CHEM 2423	Organic Chemistry I	CHEM 2---	CHEM3305/2---*	✓						✓			
CHEM 2425	Organic Chemistry II	CHEM 2---	CHEM3306/2---*	✓									
PHYS 2425	Physics I	PHYS 1408		✓	✓	✓		✓	✓	✓	✓	✓	✓
PHYS 2426	Physics II	PHYS 2401		✓	✓	✓			✓			✓	✓
LANG, PHIL, CULT	Engineering Ethics	ENGR 2392											
One of ARTS 1301, ARTS 1303, ARTS 1304	Creative Arts	One of ART 1309, ARTH 1301, ARTH 2302		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HIST 1301	US History to 1876	HIST 2300		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HIST 1302	US History since 1876	HIST 2301		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GOVT 2305	US Government	POLS 1301		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GOVT 2306	Texas State and Local Government	POLS 2306		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SPCH 1321	Business & Prof Speech	COMS 2358		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ENGR 1201	Intro to Engineering	ENGR 1315 <sup>o</sup>			✓			✓		✓	✓	✓	✓
ENGR 1304	Engineering Graphics	ENGR 1206	EGR 1207		✓			✓		✓	✓	✓	
ENGR 2301	Statics	ME 2301	CE 2301		✓					✓	✓	✓	✓
ENGR 2302	Dynamics	ME 2302	CE 3302/2---*		✓					✓	✓	✓	✓
ENGR 2305	Circuit Analysis	ECE 3301	ECE 3301/2---*									✓	
ENGR 2308	Engineering Economics	IE 2324		✓	✓								
ENGR 2332	Mechanics of Materials	ME 2---	CE 3303/2---*, ME 3403/2---*		✓					✓		✓	✓
	Travel Course <sup>†</sup>	International Experience	Partially fulfills requirement	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Semester Hours Transferred				67	77	48	63	59	58	78	69	76	69

\*TTU cannot give junior-level credit for sophomore-level courses; <sup>o</sup>ENGR 1201 will require an additional credit hour; <sup>†</sup>TTU Engineering requirement is 6-8 weeks abroad. Travel courses will subtract from the overall required time; <sup>#</sup>For Comp Sci, MC's COSC 1336, 1337, and 2336 fulfill TTU's CS 1411, 1412, and 2413 respectively.