

**West Texas A&M University
Advising Services
Degree Checklist
2014-2015**

(For assistance completing this form, contact Advising Services at 806-651-5300)

NAME: _____ WT ID: _____ DATE: _____

**Pre-Engineering
School of Engineering and Computer Science
ECS Building, Room 119 651-5257**

CORE CURRICULUM COURSES: 42 HOURS †		HRS	
Communication (Code 10)			
ENGL 1301 (ENG 101) Introduction to Academic Writing and Argumentation	3		
COMM 1315 (SCOM 101, 1315), 1318 (SCOM 103, 1318), or 1321 (SCOM 201, 1321)	3		
Mathematics (Code 20)			
See University Core Requirements below	(3)		
Life and Physical Sciences (Code 30)			
See University Core Requirements below	(6)		
Language, Philosophy and Culture (Code 40)			
ANTH 2351 (201), ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311 (110), 2323, 2372 (210); PHIL 1301 (101), 2374 (204); SPAN 2311* (206), 2312*/** (207), 2313* or SPAN 2315*/** Choose 1	3		
Creative Arts (Code 50)			
HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); DANC 2303; MUSI 1306 (MUS 101) or 1208 and 1209* (extra MUSI hour moves to Code 90); or THRE 1310 (105) Choose 1	3		
American History (Code 60)			
HIST 1301 (201), 1302 (202), 2301, 2381 Choose 2	6		
Government/Political Science (Code 70)			
POSC 2305 (101) and 2306 (102)	6		
Social and Behavioral Sciences (Code 80)			
AGBE 2317* (213); COMM 2377 (SCOM 255, 2377); CRJ 1301 (CJ 105); ECON 2301 (ECO 201), 2302 (ECO 202); PSYC 2301 (PSY 201); SOCI 1301 (201) Choose 1	3		
Institutionally Designated Option (Code 90)			
See University Core Requirements below	(6)		
PRE-ENGINEERING REQUIREMENTS: 49 HOURS—See NOTE			
<ul style="list-style-type: none"> • A grade of "C" or better must be earned in all courses required for major. • A grade of "C" or better is mandatory for all prerequisites listed for ECS courses required for engineering majors. 			
UNIVERSITY CORE REQUIREMENTS: 15 HOURS			
CORE 20 MATH 2413*[3] (240) Calculus I	3		
CORE 30 PHYS 2425*[3] (210) Calculus Physics I AND PHYS 2426*[3] (211) Calculus Physics II	6		
CORE 90 MATH 2413[1]; PHYS 2425L[1], PHYS 2426L[1]	3		
CORE 90 ENGL 2311* (ENG 270) Introduction to Professional and Technical Communication	3		
ADDITIONAL PRE-ENGINEERING REQUIREMENTS: 34 HOURS			
ENGR 1301*, 1301L (ENGR 101, 1201) Fundamentals of Engineering	3		
CS 1315* Programming Fundamentals OR CS 1337, 1337L (1437) Intro. to Object-Oriented Programming	3		

**Non-Degree Pre-professional Program
PRE.ENGR (128)—See NOTE**

ENGR 1304, 1304L (125, 125L) Engineering Graphics	3	
ENGR 1375***, 1375L (115, 115L) Principles of DC and AC Circuits	3	
ENGR 2301* (230) Engineering Statics	3	
ENGR 2302* (240) Engineering Dynamics	3	
ENGR 3202* (302, 3302) Fundamentals of Engineering Econ.	2	
CHEM 1411*, 1411L (101, 101L) Chemistry I	4	
MATH 2414* (241) Calculus II	4	
MATH 3340* (340) Calculus III	3	
MATH 3342* (342) Differential Equations I	3	
TOTAL HOURS OF ABOVE COURSES	76	

† The core curriculum must total **exactly 42 hours**; excess hours must be moved to the major as an elective or a major requirement and stay within the 120-hour requirement or approved total submitted to the Coordinating Board for degree requirements. Some majors specify particular courses to meet core curriculum requirements when options are available.

* Indicates prerequisites—see catalog for more information.

** Or an equivalent course (second year, second semester) in a foreign language.

*** Not required for Civil Engineering.

NOTE: This is NOT a degree plan. Completion of the Pre-Engineering Program will prepare students to enter WTAMU's Mechanical, Civil, or Environmental Engineering Programs or to transfer to another four-year university to complete their degree in other engineering disciplines.

Program Admission Requirements	
Criteria for admission into the Mechanical Engineering Program:	
<ul style="list-style-type: none"> • Overall GPA of at least 2.25. • Completion of the pre-engineering sequence: MATH 2413, 2414, PHYS 2425, 2426, ENGR 1301, 2301, 2302, and CS 1315 or 1337 with a GPA of at least 2.75. • Successful completion of the entrance interview with adviser. 	
Criteria for admission into the Civil Engineering Program:	
<ul style="list-style-type: none"> • Overall GPA of at least 2.25. • Completion of the pre-engineering sequence: MATH 2413, 2414; CHEM 1411, 1412; ENGR 1301, 1304, 2301, and 2302 with a GPA of at least 2.75. • Successful completion of the entrance interview with adviser. 	

