

**West Texas A&M University  
Advising Services  
Degree Checklist  
2012-2013**

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

NAME: \_\_\_\_\_ WT ID: \_\_\_\_\_ DATE: \_\_\_\_\_

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

<b>CORE CURRICULUM COURSES: 42 HOURS ♦</b>		
Specific course(s) required for this major are listed in the next section. HRS		
<b>Communication (10)</b>		
ENGL 1301 (ENG 101) Introduction to Academic Writing and Argumentation	3	
See University Core Requirements below	(3)	
<b>Communication (11)</b>		
COMM 1315 (SCOM 101, 1315) or 1321 (SCOM 201, 1321)	3	
<b>Mathematics (20)</b>		
See University Core Requirements below	(3)	
<b>Natural Sciences (30)</b>		
See University Core Requirements below	(8)	
<b>Humanities (40-41)</b>		
ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311 (110), 2323, 2372 (210); MCOM 1307 (MG 107); PHIL 1301 (101), 2374 (204); SPAN 2312**/** (207) or SPAN 2315**/** Choose 1	3	
<b>Visual and Performing Arts (50)</b>		
HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); DANC 2303; MUSI 1306 (MUS 101) or 1208 and 1209*; or THRE 1310 (105) Choose 1	3	
<b>Social and Behavioral Sciences (60)</b>		
HIST 1301 (201) or 1303; 1302 (202) or 1304; 2301; 2381 Choose 2	6	
<b>Social and Behavioral Sciences (70)</b>		
POSC 2305 (101) or 2370; 2306 (102)	6	
<b>Social and Behavioral Sciences (80)</b>		
AGBE 2317* (213), ANTH 2351 (201); CRIJ 1301 (CJ 105); ECON 2301 (ECO 201), 2302 (ECO 202), 2371; GEOG 1302 (202); PSYC 2301 (PSY 201); COMM 2377 (SCOM 255, 2377); SOCI 1301 (201); or SOCW 2361 (SOWK 201) Choose 1	3	
<b>Institutionally Designated Option (90)</b>		
ANSC 2370; CIDM 1105, 1301 (CIS, IDM 1301), 1315 (CIS, IDM 1315), 2345; CS 1301; IDS 1071; PHIL 2303 (203) Choose 1	1-3	
<b>PRE-ENGINEERING REQUIREMENTS: 48 HOURS—See NOTE</b>		
<b>UNIVERSITY CORE REQUIREMENTS: 15 HOURS</b>		
<b>CORE 10</b>		
ENGL 2311* (ENG 270) Introduction to Professional and Technical Communication	3	
<b>CORE 20</b>		
MATH 2413* (240) Calculus I	4	
<b>CORE 30</b>		
PHYS 2425* (210), 2425L (210L) Calculus Physics I AND PHYS 2426* (211), 2426L (211L) Calculus Physics II	8	
<b>ADDITIONAL PRE-ENGINEERING REQUIREMENTS: 33 HOURS</b>		
ENGR 1301*, 1301L (ENGR 101, 1201) Fundamentals of Engineering	3	
CS 1315* Programming Fundamentals	3	

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

ENGR 1304 (125), 1304L (125L) Engineering Graphics	3	
ENGR 1375*** (115), 1375L (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* (101), 1411L (101L) Chemistry I	4	
MATH 2414* (241) Calculus II	4	
MATH 3340* (340) Calculus III	3	
MATH 3342* (342) Differential Equations I	3	
<b>TOTAL HOURS OF ABOVE COURSES</b>	<b>76-78</b>	

♦ A minimum of 42 hours from the core curriculum is required. Some majors specify particular courses to meet core-curriculum requirements when options are available. Ideally, these courses should be taken during the first two years of enrollment.  
\* Indicates prerequisites—see catalog for more information.  
\*\* Or an equivalent course (second year, second semester) in French or German.  
\*\*\* Not required for Civil Engineering.

**NOTE: This is NOT a degree plan. The Pre-Engineering Program prepares students for a thorough grounding in mathematics, physics and chemistry, universally required by all ABET-accredited engineering programs. Completion of the Pre-Engineering Program will prepare students to enter WTAMU's Mechanical Engineering or Civil Engineering Program or to transfer to another four-year university to complete their degree in other engineering disciplines.**

- Criteria for admission into the Mechanical Engineering Program:**
- 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 with a GPA of at least 2.75.
  - Successful completion of the entrance interview with adviser.