

**West Texas A&M University  
STARR Center  
Degree Checklist  
2008-2009**

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

**Pre-Engineering  
Department of Engineering and Computer Science  
ET 120 651-5257**

CORE CURRICULUM COURSES (42 HOURS) ♦	HRS	
<b>Communication (10)</b>		
ENGL 1301 (ENG 101), 2311* (ENG 270)	6	
<b>Communication (11)</b>		
SCOM 1315 (101), 1321 (201)	3	
<b>Mathematics (20)</b>		
MATH 2413* (240) Calculus I	4	
<b>Natural Sciences (30)</b>		
PHYS 2425* (210), 2425L (210L) Engineering Physics I	4	
PHYS 2426* (211), 2426L (211L) Engineering Physics II	4	
<b>Humanities (40-41)</b>		
ENGL 2321* (NEW), 2326* (NEW), 2331* (NEW), 2341* (NEW), 2343* (NEW); HIST 2311 (110), 2372 (210); MCOM 1307 (MC 107); PHIL 1301 (101), 2374 (204); or SPAN 2312**/*** (207) <b>Choose 1</b>	3	
<b>Visual and Performing Arts (50)</b>		
HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); DANC 2303 (NEW); MUSI 1306 (MUS 101) or 1208 and 1209; or THRE 1310 (105) <b>Choose 1</b>	3	
<b>Social and Behavioral Sciences (60)</b>		
HIST 1301 (201), 1302 (202), 2301 <b>Choose 2</b>	6	
<b>Social and Behavioral Sciences (70)</b>		
POSC 2305 (101) or POSC 2370 (NEW); 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); SCOM 2377 (255); SOCI 1301 (201); or SOCW 2361 (SOWK 201) <b>Choose 1</b>	3	
<b>Institutionally Designated Option (90)</b>		
PHED 1111 (SES 101); PHED/ANSC activity course; DANC 1241 (1070), 2241* (2370); MUEN 1026 Upon written recommendation of the University physician or the coordinator for Student Disability Services, students may substitute a one hour elective course in lieu of physical education course.	1-2	
<b>PRE-ENGINEERING REQUIREMENTS—See NOTE (38 HOURS)</b>		
ENGR 1301 (101), 1301L (101L) Fundamentals of Engineering	3	
CS 1315* Programming Fundamentals	3	
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 3302* (302) Fundamentals of Engineering Econ.	3	

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

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>77</b>	

♦ Core curriculum courses should be taken during the first two years of enrollment. For a list of core courses with descriptions see [www.wtamu.edu/starr/](http://www.wtamu.edu/starr/).

\* Indicates prerequisites—see [catalog](#) for more information.

\*\* Or an equivalent course (second year, second semester) in French or German.

**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 Program or transfer to another four-year university to complete their degree in other engineering disciplines.**