

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

NAME: _____ WT ID: _____ DATE: _____

Mechanical Engineering
Department of Engineering and Computer Science
ET 120 651-5257

CORE CURRICULUM COURSES: 28 HOURS ♦		HRS	
Number of hours does not include specific core requirements listed below.			
Communication (10)			
ENGL 1301 (ENG 101) Composition and Reading	3		
See University Core Requirements below	(3)		
Communication (11)			
SCOM 1315 (101), 1321 (201)	3		
Mathematics (20)			
See University Core Requirements below	(4)		
Natural Sciences (30)			
See University Core Requirements below	(8)		
Humanities (40-41)			
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) Choose 1	3		
Visual and Performing Arts (50)			
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) Choose 1	3		
Social and Behavioral Sciences (60)			
HIST 1301 (201), 1302 (202), 2301 Choose 2	6		
Social and Behavioral Sciences (70)			
POSC 2305 (101) or POSC 2370 (NEW); 2306 (102)	6		
Social and Behavioral Sciences (80)			
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) Choose 1	3		
Institutionally Designated Option (90)			
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		
MECHANICAL ENGINEERING REQUIREMENTS: 98 HOURS Required courses for a degree in Mechanical Engineering.			
UNIVERSITY CORE REQUIREMENTS: 15 HOURS			
CORE 10 2311* (ENG 270) Technical Communication	3		
CORE 20 MATH 2413* (240) Calculus I	4		
CORE 30 PHYS 2425* (210), 2425L (210L) Engineering Physics I and PHYS 2426* (211), 2426L (211L) Engineering Physics II	8		
REQUIREMENTS FROM OTHER DEPARTMENTS: 20 HOURS			
CHEM 1411* (101), 1411L (101L) Chemistry I	4		
CS 1315* Programming Fundamentals	3		
ET 2371 (201), 2371L (201L) Materials and Fabrication/Metals and Ceramics ET 2372 (202), 2372L (202L) Materials and Fabrication/Plastics and Composites Choose 1	3		
MATH 2414* (241) Calculus II	4		

Bachelor of Science Degree
BS.MECH.ENGR (129)

MATH 3340* (340) Calculus III	3		
MATH 3342* (342) Differential Equations I	3		
ENGINEERING REQUIREMENTS: 42 HOURS			
ENGR 1301 (101), 1301L (101L) Fundamentals of Engineering	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		
MENG 2360* (3360) Engineering Ethics	3		
MENG 3320* Engineering Thermodynamics	3		
MENG 3340* (350) Mechanics of Materials I	3		
MENG 4304* (404) Fundamentals of Fluid Mechanics	3		
MENG 4350* (NEW) Machine Design	3		
MENG 4352* (420) Thermal/Fluid Design	3		
MENG 4360* (460) Heat Transfer	3		
MENG 4380* (480) Mechanical Engineering Design	3		
ELECTIVES: 21 HOURS			
MENG ELECTIVE	3		
MENG ELECTIVE	3		
MENG ELECTIVE	3		
Take three courses from: MATH 3311* (411) Linear Algebra MATH 3343* Differential Equations II MATH 4340* (440) Complex Variables I MATH 4341* (441) Advanced Calculus MATH 4361* (461) Engineering Statistics MATH 4362* (492) Introduction to Numerical Analysis PHYS 3310* (310) Modern Physics I PHYS 4310* (410) Modern Physics II PHYS 4330* (430) Optics	9		
CS, ENGR, ET, OR MENG ELECTIVE	3		
TOTAL HOURS REQUIRED TO COMPLETE DEGREE	126		

♦ 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/.

* 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. Upon completion of 60 hours, apply for a degree plan in the office of the dean of the College of Agriculture, Science and Engineering located in the Agriculture and Natural Sciences Building, Room 106, or call 651-2585.