

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

NAME: _____ WT ID: _____ DATE: _____

**Engineering Technology Option I—Industrial/
Manufacturing**
Department of Engineering and Computer Science
ET 120 651-5257

CORE CURRICULUM COURSES: 31 HOURS ♦		
Number of hours does not include specific core requirements listed below.		HRS
Communication (10)		
ENGL 1301 (ENG 101) and ENGL 1302* (ENG 102)	6	
Communication (11)		
SCOM 1315 (101), 1318 (103), or 1321 (201)	3	
Mathematics (20)		
See University Core Requirements below	(3)	
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 SOWK 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	
ENGINEERING TECHNOLOGY—OPTION I (INDUSTRIAL/MANUFACTURING) REQUIREMENTS: 92-93 HOURS Courses required for a degree in Engineering Technology (Ind./Mfg.).		
UNIVERSITY CORE REQUIREMENTS: 11 HOURS		
CORE 20 MATH 1314* (110) or 1324* (115)	3	
CORE 30 PHYS 1401* (101), 1401L (101L) General Physics I and PHYS 1402* (102), 1402L (102L) General Physics II	8	
INDUSTRIAL/MANUFACTURING REQUIREMENTS: 51 HOURS		
ENGR 1301, 1301L (ENGR 101) Fundamentals of Engineering	3	
ENGR 1304, 1304L (ET 125) Engineering Graphics	3	
ENGR 1375, 1375L (115) Principles of DC and AC Circuits	3	
ENGR 2301* (ENGR 230) Engineering Statics	3	
ENGR 2302* (240) Engineering Dynamics	3	
ET 2371, 2371L (201) Materials and Fabrications/Metals and Ceramics	3	

Bachelor of Science Degree
BS.ENGR.TECH (112)

ET 2372, 2372L (202) Materials and Fabrications/Plastics and Composites	3	
ET 2375*, 2375L (215) Electronic Devices and Circuits	3	
ET 3301* (301) Fundamentals of Manufacturing Technology	3	
ET 3360* (360) Plant Design and Layout	3	
ET 4314 (414) Industrial Quality Assurance	3	
ET 4370 (470) Industrial Safety and Accident Prevention	3	
ET 4380* (480) Design Implementation	3	
Take four courses from: ET 3315*, 3315L (315) Digital Electronics ET 3330*, 3330L (330) Fluid Power/Power Transmission ET 4301*, 4301L (401) Machining Fundamentals ET 4311* (411) Industrial Design and Ergonomics ET 4325*, 4325L (425) Computer-Aided Drafting and Design ET 4330*, 4330L (430) Numerical Control and Computer-Aided Manufacturing	12	
REQUIRED COURSES FROM OTHER AREAS (18-19 HOURS)		
CHEM 1411*, 1411L (101, 101L) Chemistry I	4	
CHEM 1412*, 1412 (102, 102L) Chemistry II	4	
ENGL 2311* (ENG 270) Introduction to Professional and Technical Communication	3	
MATH 1316* (111) Plane Trigonometry MATH 2412* Pre-Calculus Choose 1	3-4	
MATH 2413* (240) Calculus I	4	
ELECTIVES (12 HOURS) BY ADVISEMENT*** Select four courses from upper-level ET, ENGR, MENG or CS electives (or other courses after consulting with an adviser).		
ADVANCED ELECTIVE	3	
ADVANCED ELECTIVE	3	
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ADVANCED ELECTIVE	3	
TOTAL HOURS REQUIRED TO COMPLETE DEGREE	123-124	

♦ 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.

*** At least 36 hours of advanced work (courses at the 3000- or 4000-level) are required to receive a bachelor's degree. At least 30 must be earned in residence at WTAMU.

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.