

West Texas A&M University
STARR Center
Degree Checklist
2007-2008

NAME: _____ WT ID: _____ DATE: _____

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

CORE CURRICULUM COURSES (42 HOURS)	HRS
ENGL 1301 (ENG 101) Composition and Reading	3
ENGL 1302* (ENG 102) Composition and Reading	3
SCOM 1315 (101), 1318 (103), or 1321 (201) (SPEECH COMMUNICATION)	3
MATH 1314* (110) or 1324* (115)	3
PHYS 1401* (101), 1401L (101L) (PHYSICS)	4
PHYS 1402* (102), 1402L (102L)	4
ENGL 2332* (ENG 201), 2333* (202), 2371* (203); HIST 2372 (210); PHIL 1301 (101); or SPAN 2312** (207) (ENGLISH, HISTORY, PHILOSOPHY, SPANISH) Choose 1	3
HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); MUSI 1306 (MUS 101) or 1208 and 1209; or THRE 1310 (105) (HUMANITIES, ART, MUSIC, THEATRE) Choose 1	3
HIST 1301 (201) America, 1492-1877	3
HIST 1302 (202) America Since 1877	3
POSC 2305 (101) American National Government POSC 2370 (NEW) Constitutional American Government Choose 1	3
POSC 2306 (102) American State and Local Government	3
AGBE 2317 (213), ANTH 2351 (201), ECON 2301 (ECO 201), GEOG 1302 (202), PSYC 2301 (PSY 201), SCOM 2377 (255), SOC 1301 (201) (AGRICULTURAL BUSINESS AND ECONOMICS, ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, PSYCHOLOGY, SPEECH COMMUNICATION, SOCIOLOGY) Choose 1	3
PHED 1111 (SES 101) (PHYSICAL EDUCATION) 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
OPTION I—INDUSTRIAL/ MANUFACTURING REQUIREMENTS (51 HOURS)	
ENGR 1301, 1301L (ENGR 101) (ENGINEERING) 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) (ENGINEERING TECHNOLOGY) Materials and Fabrications/Metals and Ceramics	3
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

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

ET 4370 (470) Industrial Safety and Accident Prevention	3	
ET 4380* (480) Design Implementation	3	
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 Choose 4	12	
REQUIRED COURSES FROM OTHER AREAS (18-19 HOURS)		
CHEM 1411*, 1411L (101, 101L) (CHEMISTRY) Chemistry I	4	
CHEM 1412*, 1412 (102, 102L) Chemistry II	4	
MATH 1316* (111) Plane Trigonometry MATH 2412* Pre-Calculus Choose 1	3-4	
MATH 2413* (240) Calculus I	4	
ENGL 2311* (ENG 270) Introductions to Technical Communication	3	
ELECTIVES (12 HOURS) BY ADVISEMENT*** Select four courses from upper-level ET electives (or math, CIS, management, ENGR or other courses after consulting with an adviser).		
ADVANCED ELECTIVE	3	
ADVANCED ELECTIVE	3	
ADVANCED ELECTIVE	3	
ADVANCED ELECTIVE	3	
TOTAL HOURS REQUIRED TO COMPLETE DEGREE	123- 124	

* 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.

Revised 3/07
enr.tech.opt1.ind.mfg.bs

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 Old Main, Room 402, or call 651-2585.