

**West Texas A&M University**  
**STARR Center**  
**Degree Checklist**  
**2006-2007**

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

**Engineering Technology Option I—Industrial/  
Manufacturing**  
**Department of Mathematics, Physical Sciences and  
Engineering - CC 312B 651-2540**

CORE CURRICULUM COURSES (42 HOURS)		HRS
ENGL 1301 (ENG 101) (ENGLISH)		3
ENGL 1302* (ENG 102) (ENGLISH)		3
SCOM 1315 (101), 1318 (103), or 1321 (201) (SPEECH COMMUNICATIONS)		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) <b>Choose 1</b>		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) (FINE ARTS, ARTS, MUSIC, THEATRE) <b>Choose 1</b>		3
HIST 1301 (201) (HISTORY)		3
HIST 1302 (202) (HISTORY)		3
POSC 2305 (101) (POLITICAL SCIENCE)		3
POSC 2306 (102) (POLITICAL SCIENCE)		3
ANTH 2351 (201) ECON 2301 (ECO 201), GEOG 1302 (202), PSYC 2301 (PSY 201), SOCI 1301 (201) (ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, PSYCHOLOGY, SOCIOLOGY) <b>Choose 1</b>		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
ET 4370 (470) Industrial Safety and Accident Prevention		3
ET 4380* (480) Design Implementation		3

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

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 <b>Choose 4</b>	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 1348* (140) or 2412 Pre-Calculus	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	
<b>TOTAL HOURS REQUIRED TO COMPLETE DEGREE</b>	<b>123-124</b>	

\* 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 5/06  
ENGR.TECH1

**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, Nursing, Science and Engineering, located in Old Main, Room 402, or call 651-2585.**