

West Texas A&M University
Advising Services
Degree Checklist
2012-2013

(For assistance completing this form, contact Advising Services at 806-651-5300)

NAME: _____ WT ID: _____ DATE: _____

**Engineering Technology Option I—Renewable Energy
 Technology, Manufacturing/Industrial
 Department of Engineering and Computer Science
 ECS Building, Room 119 651-5257**

CORE CURRICULUM COURSES: 42 HOURS ♦		HRS	
Specific course(s) required for this major are listed in the next section.			
Communication (10)			
ENGL 1301 (ENG 101) and ENGL 1302* (ENG 102)	6		
Communication (11)			
COMM 1315 (SCOM 101, 1315), 1318 (SCOM 103, 1318), or 1321 (SCOM 201, 1321)	3		
Mathematics (20)			
See University Core Requirements below	(3)		
Natural Sciences (30)			
See University Core Requirements below	(8)		
Humanities (40-41)			
ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311 (110), 2323, 2372 (210); MCOM 1307 (MC 107); PHIL 1301 (101), 2374 (204); SPAN 2312**/2315** (207) or SPAN 2315**/2316** (207) Choose 1	3		
Visual and Performing Arts (50)			
HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); DANC 2303; MUSI 1306 (MUS 101) or 1208 and 1209*; or THRE 1310 (105) Choose 1	3		
Social and Behavioral Sciences (60)			
HIST 1301 (201) or 1303; 1302 (202) or 1304; 2301; 2381 Choose 2	6		
Social and Behavioral Sciences (70)			
POSC 2305 (101) or 2370; 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); COMM 2377 (SCOM 255, 2377); SOCI 1301 (201); or SOCW 2361 (SOWK 201) Choose 1	3		
Institutionally Designated Option (90)			
ANSC 2370; CIDM 1105, 1301 (CIS, IDM 1301), 1315 (CIS, IDM 1315), 2345; CS 1301; IDS 1071; PHIL 2303 (203) Choose 1	1-3		
ENGINEERING TECHNOLOGY OPTION I—INDUSTRIAL/ MANUFACTURING MAJOR REQUIREMENTS: 90-91 HOURS			
A grade of "C" or better must be earned in all courses required for major.			
UNIVERSITY CORE REQUIREMENTS: 11-12 HOURS			
CORE 20			
MATH 1316* (111) Plane Trigonometry OR MATH 2412* Pre-Calculus	3-4		
CORE 30			
PHYS 1401* (101), 1401L (101L) General Physics I AND PHYS 1402* (102), 1402L (102L) General Physics II OR PHYS 2425* (210), 2425L (210L) Calculus Physics I AND PHYS 2426* (211), 2426L (211L) Calculus Physics II	8		
RENEWABLE ENERGY TECHNOLOGY MANUFACTURING/INDUSTRIAL REQUIREMENTS: 67 HOURS			
ENGR 1171 (MENG 2360) Engineering Ethics	1		
ENGR 1301*, 1301L (ENGR 101, 1201) Fundamentals of Engineering	3		
ENGR 1304, 1304L (ET 125) Engineering Graphics	3		
ENGR 1375, 1375L (115) Principles of DC and AC Circuits	3		

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ENGR 2301* (230) Engineering Statics	3		
ENGR 2302* (240) Engineering Dynamics	3		
ET 2371*, 2371L (201) 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		
CHEM 1411*, 1411L (101, 101L) Chemistry I AND CHEM 1412*, 1412 (102, 102L) Chemistry II	8		
ENGL 2311* (ENG 270) Introduction to Professional and Technical Communication	3		
MATH 2413* (240) Calculus I	4		
Take four courses from:			
ET/PHYS 3302 (PHYS 302, 3302) Wind Energy & Wind Turbines	12		
ET/PHYS 3303 (PHYS 301, 3301) Solar Energy			
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			
ET 4350 Renewable Energy			
ET 4351 Bioenergy			
ET 4352 Geothermal Energy			
ADVANCED ELECTIVES: 12 HOURS			
Select four upper-level ET courses (or CS, MGT, ENGR, MENG or other courses after consulting with an adviser).			
ADVANCED ET COURSE (or other after advisor consultation)	3		
ADVANCED ET COURSE (or other after advisor consultation)	3		
ADVANCED ET COURSE (or other after advisor consultation)	3		
ADVANCED ET COURSE (or other after advisor consultation)	3		
TOTAL HOURS REQUIRED TO COMPLETE DEGREE	121-124		

♦ A minimum of 42 hours from the core curriculum is required. Some majors specify particular courses to meet core-curriculum requirements when options are available. Ideally, these courses should be taken during the first two years of enrollment.
 * Indicates prerequisites—see catalog for more information.
 ** Or an equivalent course (second year, second semester) in French or German.
 NOTE: At least 39 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU, and 30 of the final 36 hours counted toward the degree must be earned at WTAMU. A maximum of six semester hours in religion and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

Note: This is NOT a degree plan. Before completion of 60 hours, students are allowed and encouraged to request an official 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). After completing 60 hours, students will not be allowed to progress without requesting a degree plan.