West Texas A&M University Advising Services Degree Checklist 2020-2021

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

NAME:	WT ID:	DATE:
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Engineering Technology Option I—Renewable Energy Technology, Manufacturing/Industrial College of Engineering

CORE CURRICULUM COURSES: 42 HOURS +	ECS Building, Room 119 651-5257			
ENGL 1301 Introduction to Academic Writing and Argumentation	CORE CURRICULUM COURSES: 42 HOURS ◆	HRS	;	
Argumentation	Communication (Core 10)			
Mathematics (Core 20) Governments below		3		
See University Core Requirements below		3		
Life and Physical Sciences (Core 30) Ge University Core Requirements below		1		
See University Core Requirements below		(3)		
Language, Philosophy and Culture (Core 40)		1		
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*, HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 3 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 3 2311, 2312*/**, 2313, 2315*, or 2371 Choose 1 Creative Arts (Core 50) ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1 American History (Core 60) HIST 1301, 1302, 2301, 2381 Choose 2 6 Government/Political Science (Core 70) POSC 2305 and 2306 6 AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1 Institutionally Designated Option (Core 90) See University Core Requirements below (6) ENGINEERING TECHNOLOGY OPTION IINDUSTRIAL/MANUFACTURING MAJOR REQUIREMENTS: 91 HOURS A grade of "C" or better must be earned in all courses required for major. UNIVERSITY CORE REQUIREMENTS: 15 HOURS + CORE 20 MATH 2412*[3] Pre-Calculus CORE 30 PHYS 1401*[3] General Physics I AND PHYS 1401*[3] General Physics I AND PHYS 1402*[3] Calculus Physics I AND PHYS 2425*[3] Calculus Physics I AND PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics I I CORE 30 ENGL 2311* Introduction to Professional and Technical Communication CORE 30 PHYS 1401*[1] and 1402L[1] OR PHYS 1425L[1] and 1426L[1]; MATH 2412[1] (or CHEM 1411L[1], 1412L[1] or MATH 2413[1] HMATH 1316 is taken for Core 20) RENEWABLE ENERGY TECHNOLOGY MANUFACTURING/INDUSTRIAL REQUIREMENTS: 64 HOURS ENGR 1304, 1304L Engineering Ethics 1 ENGR 1304, 1304L Engineering Graphics 3 ENGR 2301* Engineering Statics 3 ENGR 2302* Engineering Dynamics 3 ENGR 2302* Engineering Dynamics 3 ENGR 2302* Engineering Dynamics 3 ENGR 2371*, 2371L Materials and Fabrications/Metals and 3		(6)		
2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311, 2312*/**, 2313, 2315*, or 2371 Choose 1 Creative Arts (Core 50)				
Creative Arts (Core 50)	2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN	3		
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1 American History (Core 60) HIST 1301, 1302, 2301, 2381 Choose 2 6 Government/Political Science (Core 70) POSC 2305 and 2306 6 6 Social and Behavioral Sciences (Core 80) AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1 Institutionally Designated Option (Core 90) See University Core Requirements below (6) ENGINEERING TECHNOLOGY OPTION IINDUSTRIAL/MANUFACTURING MAJOR REQUIREMENTS: 91 HOURS A grade of "C" or better must be earned in all courses required for major. UNIVERSITY CORE REQUIREMENTS: 15 HOURS + CORE 20 MATH 1316* Plane Trigonometry OR MATH 2412*[3] Pre-Calculus CORE 20 MATH 2412*[3] General Physics I AND PHYS 1401*[3] General Physics I AND PHYS 1401*[3] General Physics I I OR PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II CORE 90 PHYS 1401L[1] and 1402L[1] OR PHYS 1425L[1] and 1426L[1]; MATH 2412[1] (or CHEM 1411L[1], 1412L[1] or MATH 2413[1] If MATH 1316 Is taken for Core 20) RENEWABLE ENERGY TECHNOLOGY MANUFACTURING/INDUSTRIAL REQUIREMENTS: 64 HOURS ENGR 1301*,1301L Fundamentals of Engineering ENGR 1304*,1304L Engineering Graphics 1 ENGR 2301* Engineering Statics ENGR 2301* Engineering Dynamics ENGR 2301* Engineering Dynamics ENGR 2371*, 2371L Materials and Fabrications/Metals and 3 ET 2371*, 2371L Materials and Fabrications/Metals and			_	-
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American History (Core 60) HIST 1301, 1302, 2301, 2381 Choose 2 6 Government/Political Science (Core 70) POSC 2305 and 2306 6 Social and Behavioral Sciences (Core 80) AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1 Institutionally Designated Option (Core 90) See University Core Requirements below (6) ENGINEERING TECHNOLOGY OPTION IINDUSTRIAL/MANUFACTURING MAJOR REQUIREMENTS: 91 HOURS A grade of "C" or better must be earned in all courses required for major. UNIVERSITY CORE REQUIREMENTS: 15 HOURS • CORE 20 MATH 1316* Plane Trigonometry OR 3 MATH 2412*[3] Pre-Calculus CORE 30 PHYS 1401*[3] General Physics I AND PHYS 1402*[3] General Physics II OR PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II CORE 90 ENGL 2311* Introduction to Professional and Technical COMMUNICATION CORE 10 CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introduction to Professional and Technical CORE 90 ENGL 2311* Introducti		3		
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ET 2371*, 2371L Materials and Fabrications/Metals and	ENGR 2301* Engineering Statics	3		
1 3 1	ENGR 2302* Engineering Dynamics	3		
		3		

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

ET 2372*, 2372L Materials and Fabrications/Plastics and Composites	3				
ET 2375*, 2375L Electronic Devices and Circuits	3				
ET 3301* Fundamentals of Manufacturing Technology	3				
ET 3360* Plant Design and Layout	3				
ET 4314 Industrial Quality Assurance	3				
ET 4370 Industrial Safety and Accident Prevention	3				
ET 4380* Design Implementation	3				
CHEM 1411*, 1411L (101) Chemistry I AND CHEM 1412*, 1412 (102) Chemistry II	8				
MATH 2413* Calculus I	4				
Take four courses from: ET/PHYS 3302 Wind Energy & Wind Turbines ET/PHYS 3303 Solar Energy ET 3315*, 3315L Digital Electronics ET 3330*, 3330L Fluid Power/Power Transmission ET 4301*, 4301L Machining Fundamentals ET 4311* Industrial Design and Ergonomics ET 4325*, 4325L Computer-Aided Drafting and Design ET 4330*, 4330L Numerical Control and Computer-Aided Manufacturing ET 4350 Renewable Energy	12				
ET 4351 Bioenergy ET 4352 Geothermal Energy					
ADVANCED ELECTIVES: 12 HOURS Select four upper-level ET courses (or CS, MGT, ENGR, MENG, CENG, EVEG 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				
ELECTIVE: 2 HOURS (if needed to total 120 overall)					
ELECTIVE - Three hours if MATH 1316 is taken for University core (Core 20).	2-3				
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE	120				
A The core curriculum much total exectly 42 hours, avecas hours much be					

- ♦ The core curriculum must total **exactly 42 hours**; excess hours must be moved to the major as an elective or a major requirement and stay within the 120-hour requirement or approved total submitted to the Coordinating Board for degree requirements. Some majors specify particular courses to meet core curriculum requirements when options are available.
- * Indicates prerequisites—see catalog for more information.
- ** Or an equivalent course (second year, second semester) in a foreign language. 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 (RELI) and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

NOTE: This is NOT a degree plan. After completing 30 hours, students must request an official degree plan (using the online <u>Degree Plan Request</u> form) in order to progress. Students who have questions about their degree plan should contact the office of the dean of the College of Engineering, located in the Engineering and Computer Science Building, Room 119 (or call 806-651-5257).

2020-2021 Curriculum Guide

Engineering Technology - Option I—Renewable Energy Technology, Manufacturing/Industrial

Engineering and Computer Science Advising Services Bachelor of Science Degree BS.ENGR.TECH

Degree Plan Total Hours: Major Code: 112 ECS 119 651-5257 120

First Ye	First Year							
	Fall		Spring					
Н	CORE 10-ENGL 1301	3	Н	CORE 90-ENGL 2311	3			
0			0					
u	CORE 20-MATH	3	u	MATH 2413	4			
r	1316 or 2412		r					
S	ENGR 1375	3	s	ENGR 1301	3			
15	ENGR 1304	3	17	CHEM 1411/1411L	4			
			1,					
	CORE 80	3		CORE 50-	3			
	See Checklist for Options			See Checklist for Options				

Secon	Second Year						
	Fall			Spring			
Н	ENGR 2301	3	Н	ET 2375	3		
0			0				
u	CORE 10-COMM	3	u	ET 2372	3		
l r	1315, 1318 or 1321		r				
S	ET 2371	3	S	CORE 30-LAB SCIENCE	4		
				PHYS 1401/1401L			
16	CORE 60-HIST	3	16	ENGR 2302	3		
10	1301, 1302, 2301 or 2381		10				
	CHEM 1412/1412L	4		CORE 60-HIST	3		
				1301, 1302, 2301 or 2381			

Third Year							
	Fall		Spring				
١	CORE 70-POSC	3		CORE 70-POSC	3		
H	2305 or 2306		H o	2305 or 2306			
lu	ENGR 1171	1	u	ET ELECTIVE	3		
l r			r	See Checklist for Options			
s	ET 3360	3	s	ET 4314	3		
13	ET 4370	3	16	CORE 30-LAB SCIENCE	4		
13			10	PHYS 1402/1402L			
	ET 3301	3		ET Elective	3		

Fourth	Fourth Year						
	Fall		Spring				
l	FREE ELECTIVE	3		ET ADVANCED ELECTIVE	3		
H			H	After consulting with adviser			
o u	ET 4380	3	0 U	ET ADVANCED ELECTIVE	3		
r	See Checklist for Options		r	After consulting with adviser			
s	ET ELECTIVE	3	s	ET ADVANCED ELECTIVE	3		
	See Checklist for Options			After consulting with adviser			
15	ET ELECTIVE	3	12	ET ADVANCED ELECTIVE	3		
13	See Checklist for Options		12	After consulting with adviser	.]		
	CORE 40	3					
	See Checklist for Options						

DISCLAIMER: This curriculum guide should be used in conjunction with the corresponding degree checklist for general planning purposes only. The degree checklist (later a student's official degree plan) should be referred to as the comprehensive list of all courses required for the degree. An official degree plan is required after completing 45 hours. Students should always seek the advice of their academic adviser before scheduling classes.