

West Texas A&M University
Advising Services
Degree Checklist
2022-2023

(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
 College of Engineering
 ECS Building, Room 119 651-5257**

CORE CURRICULUM COURSES: 42 HOURS ♦		HRS	AC
Communication (Core 10)			
ENGL 1301 Intro. To Academic Writing & Argumentation OR ENGL 1311 Writing About Ideas		3	
COMM 1315, 1318, or 1321		3	
Mathematics (Core 20)			
See University Core Requirements below		(3)	
Life and Physical Sciences (Core 30)			
See University Core Requirements below		(6)	
Language, Philosophy and Culture (Core 40)			
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311, 2312**/, 2313, 2315*, or 2371	Choose 1	3	
Creative Arts (Core 50)			
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310	Choose 1	3	
American History (Core 60)			
HIST 1301 or 2381, 1302 or 2382, 2301	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	3	
Institutionally Designated Option (Core 90)			
See University Core Requirements below		(6)	
ENGINEERING TECHNOLOGY OPTION I--INDUSTRIAL/ MANUFACTURING MAJOR REQUIREMENTS: 91 HOURS			
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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	AC	3	
CORE 30			
PHYS 1401*[3] General Physics I AND PHYS 1402*[3] General Physics II		6	
OR	AC		
PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II			
CORE 90			
ENGL 1302* Academic Writing and Research		3	
ENGL 2311* Introduction to Professional and Technical Communication	AC		
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)		3	
RENEWABLE ENERGY TECHNOLOGY MANUFACTURING/INDUSTRIAL REQUIREMENTS: 64 HOURS			
ENGR 1171* Engineering Ethics		1	
ENGR 1301*, 1301L Fundamentals of Engineering	AC	3	
ENGR 1304, 1304L Engineering Graphics	AC	3	
ENGR 1375*, 1375L Principles of DC and AC Circuits	AC	3	
ENGR 2301* Engineering Statics	AC	3	
ENGR 2302* Engineering Dynamics	AC	3	

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

ET 2371*, 2371L Materials and Fabrications/Metals and Ceramics		3	
ET 2372*, 2372L Materials and Fabrications/Plastics and Composites		3	
ET 2375*, 2375L Electronic Devices and Circuits	AC	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*, 1412L (102) Chemistry II	AC	8	
MATH 2413* Calculus I	AC	4	
Take four courses from:			
ET/PHYS 3302 Wind Energy & Wind Turbines		12	
ET/PHYS 3303 Solar Energy: Residence and Rural Systems			
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			
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		2-3	
- Three hours if MATH 1316 is taken for University core (Core 20).			
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE		120	

♦ 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 36 hours of advanced work (3000- or 4000-level courses) for which tuition is paid 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. All undergraduate students must request an official degree plan from their academic dean's office by the time they have completed 30 credit hours.

WTAMU ADVISING SERVICES
2022-2023 Curriculum Guide

Major: Engineering Technology - Opt. I

Major Code: 112

First Year	
Boldface type indicates major requirements.	
Fall	Spring
Semester Hours	Semester Hours

Second Year	
Fall	Spring
Semester Hours	Semester Hours

Third Year	
Fall	Spring
Semester Hours	Semester Hours

Fourth Year	
Fall	Spring
Semester Hours	Semester Hours

Degree Total Hours 120

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 30 hours. Students should always seek the advice of their academic adviser before scheduling classes.

Identified Marketable Skills:

Top 3 Local Employers or Industries/Professional Programs/Possible Career Opportunities
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Prerequisites/Important Sequences/Other degree Notes:
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