

WTAMU ADVISING SERVICES – 2025-2026 Curriculum Guide

Major: Engineering Technology – Option I Renewable Energy Technology, Manufacturing/Industrial, B.S.

Major Code: 112

Year 1: Fall		Year 1: Spring	
CORE 10 (Communication) – ENGL 1301 or 1311	3	CORE 30 (Life & Phys. Sci.) – PHYS 1402 or PHYS 2426	3
CORE 10 (Communication) – COMM 1315, 1318 or 1321	3	CORE 90 (Component Area Opt.) – PHYS 1402L or PHYS 2426L	1
CORE 20 (Mathematics) – MATH 1316 or MATH 2412	3	MATH 2413 Calculus I	4
CORE 30 (Life & Phys. Sci.) – PHYS 1401 or PHYS 2425	3	ENGR 1171 Engineering Ethics	1
CORE 90 (Component Area Opt.) – PHYS 1401L or PHYS 2425L	1	ENGR 1304/1304L Engineering Graphics	3
ENGR 1301/1301L Fundamentals of Engineering	3	ENGR 1375/1375L Principles of DC and AC Circuits	3
Total:	16	Total:	15
Year 2: Fall		Year 2: Spring	
CORE 90 (Component Area Opt.) – ENGL 1302, 1312 or 2311	3	CORE 40 (Language, Philosophy & Culture) ¹	3
ENGR 2301 Engineering Statics	3	ET 2375/2375L Electronic Devices and Circuits	3
ENGR 3202 Fundamentals of Engineering Economics	2	ET 3301 Fundamentals of Manufacturing Technology	3
ENGR 3371/3371L Materials & Fabrication - Metals & Ceramics	3	ET 3372/3372L Materials & Fabrication – Plastics & Composites	3
CHEM 1411/1411L Chemistry I	4	ET 4314 Industrial Quality Assurance	3
Total:	15	Total:	15
Year 3: Fall		Year 3: Spring	
CORE 50 (Creative Arts) ¹	3	CORE 60 (American History) ¹	3
ET 3360 Plant Design and Layout	3	MATH 3360 Statistical Methods	3
ET 4320 Principles of Programming, Controllers & Automation	3	ET 4370 Industrial Safety and Accident Prevention	3
Renewable Energy Technology Electives – Take 1 st course: ET 3302, ET 3303, ET 4350, ET 4353	3	Renewable Energy Technology Electives – Take 2 nd course: ET 3302, ET 3303, ET 4350, ET 4353	3
Manufacturing/Industrial Electives – Take 1 st of 4 courses from: ET 3370, 4311, 4325, 4330, or 4342	3	Manufacturing/Industrial Electives – Take 2 nd of 4 courses from: ET 3370, 4311, 4325, 4330, or 4342	3
Total:	15	Total:	15
Year 4: Fall		Year 4: Spring	
CORE 60 (American History) ¹	3	CORE 70 (Govt./Political Science) – POSC 2306 ¹	3
CORE 70 (Govt./Political Science) – POSC 2305 ¹	3	CORE 80 (Social & Behavioral Sciences) ¹	3
Renewable Energy Technology Electives – Take 3 rd course: ET 3302, ET 3303, ET 4350, ET 4353	3	ET 4380 Design Implementation	3
Manufacturing/Industrial Electives – Take 3 rd of 4 courses from: ET 3370, 4311, 4325, 4330, or 4342	3	Renewable Energy Technology Electives – Take 4 th course: ET 3302, ET 3303, ET 4350, ET 4353	3
General Elective	1-3	Manufacturing/Industrial Electives – Take 4 th of 4 courses from: ET 3370, 4311, 4325, 4330, or 4342	3
Total:	13-15	Total:	15

¹ **CORE:** Engineering Technology majors are required to take specific courses for Core 20, Core 30, and Core 90. For all other categories, they may select from any available options (see degree checklist for options). Apart from the major-specific core requirements, there is no set order in which core courses must be taken.

Identified Marketable Skills	Top Three Local Employers or Industries/Professional Programs/Possible Career Opportunities

Additional notes:

- 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.
- 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.

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.