WTAMU ADVISING SERVICES – 2024-2025 Curriculum Guide

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

Major Code: 112

Year 1: Fall	
CORE 10 (Communication) – ENGL 1301 or 1311	3
CORE 20 (Mathematics) – MATH 1316 or 2412[1]	3
ENGR 1375/1375L Principles of DC & AC Circuits	3
ENGR 1304/1304L Engineering Graphics	3
CORE – See checklist for options[1]	3
Total:	15

Year 1: Spring	
CORE 90 (Component Area Option) – ENGL 1302, 1312, or 2311	3
MATH 2413 Calculus I	4
ENGR 1301/1301L Fundamentals of Engineering	3
CHEM 1411/1411L Chemistry I	4
CORE – See checklist for options[1]	3
Total:	17

Year 2: Fall	
ENGR 2301 Engineering Statics	3
ET 2371/2371L Materials & Fabrication/Metals & Ceramics	3
CHEM 1412/1412L Chemistry II	4
CORE – See checklist for options[1]	3
CORE – See checklist for options[1]	3
Total:	16

Year 2: Spring	
ET 2375/2375L Electronic Devices and Circuits	3
ET 2372/2372L Materials & Fabrication/Plastics & Composites CORE	3
30 (Life & Phys. Sci.) – PHYS 1401/1401L or 2425 /2425L	4
2302 Engineering Dynamics	3
CORE – See checklist for options[1]	3
Total:	16

Year 3: Fall	
ET 3360 Plant Design and Layout	3
ET 4370 Industrial Safety & Accident Prevention	3
ET 3301 Fundamentals of Manufacturing Technology	3
CORE – See checklist for options[1]	3
CORE – See checklist for options[1]	3
Total:	15

Year 3: Spring	
ET 4314 Industrial Quality Assurance	3
Take 1st of 4 courses from: ET/PHYS 3302, ET/PHYS 3303, ET 3315, 3330, 4301, 4311, 4325, 4330, 4350, 4351, 4352	3
Take 2nd of 4 courses from: ET/PHYS 3302, ET/PHYS 3303, ET 3315, 3330, 4301, 4311, 4325, 4330, 4350, 4351, 4352	3
CORE 30 (Life & Phys. Sci.) – PHYS 1402/1402L or PHYS 2426/2426L	4
ENGR 1171 Engineering Ethics	1
Total:	14

Year 4: Fall	
ET 4380 Design Implementation	3
Take 3rd of 4 courses from: ET/PHYS 3302, ET/PHYS 3303, ET 3315, 3330, 4301, 4311, 4325, 4330, 4350, 4351, 4352	3
Take 4th of 4 courses from: ET/PHYS 3302, ET/PHYS 3303, ET 3315, 3330, 4301, 4311, 4325, 4330, 4350, 4351, 4352	3
CORE – See checklist for options[1]	3
Elective	3
Total:	15

Year 4: Spring	
ET Advanced Elective	3
ET Advanced Elective	3
ET Advanced Elective	3
ET Advanced Elective	3
Total:	12

[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). 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.