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

(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

| ECS Building, Room 119 651-5257 | | | | | | | | |
|--|---------------------------------------|---|----|--|--|--|--|--|
| CORE CURRICULUM COURSES: 42 HOURS + | HRS | F | PC | | | | | |
| 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) | (0) | | | | | | | |
| ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311, 2312*/**, 2313, 2315*, or 2371 | 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) | | | I | | | | | |
| 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) | (0) | | | | | | | |
| See University Core Requirements below | (6) | | | | | | | |
| MANUFACTURING MAJOR REQUIREMENTS: 91 HOURS A grade of "C" or better must be earned in all courses required for major. | | | | | | | | |
| | major | | | | | | | |
| UNIVERSITY CORE REQUIREMENTS: 15 HOURS ◆ | major | | | | | | | |
| | major 3 | | | | | | | |
| UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦ CORE 20 MATH 1316* Plane Trigonometry OR 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 | | | | | | | | |
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| UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦ CORE 20 MATH 1316* Plane Trigonometry OR 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 I II CORE 90 ENGL 1302* Academic Writing and Research ENGL 2311* Introduction to Professional and Technical Communication PC 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 HOU | 3 3 3 RRS | | | | | | | |
| UNIVERSITY CORE REQUIREMENTS: 15 HOURS ◆ CORE 20 MATH 1316* Plane Trigonometry OR 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 1302* Academic Writing and Research ENGL 2311* Introduction to Professional and Technical Communication 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 HOU ENGR 1171* Engineering Ethics | 3 3 3 TRS 1 | | | | | | | |
| UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦ CORE 20 MATH 1316* Plane Trigonometry OR 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 1302* Academic Writing and Research ENGL 2311* Introduction to Professional and Technical Communication PL 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 HOU ENGR 1301*,1301L Fundamentals of Engineering ENGR 1304, 1304L Engineering Graphics ENGR 1375*, 1375L Principles of DC and AC Circuits | 3 3 3 RS 1 3 | | | | | | | |
| UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦ CORE 20 MATH 1316* Plane Trigonometry OR 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 1302* Academic Writing and Research ENGL 2311* Introduction to Professional and Technical Communication 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 HOU ENGR 1301*,1301L Fundamentals of Engineering ENGR 1304, 1304L Engineering Graphics | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | | | | | | | |

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

| ET 2371*, 2371L Materials and Fabrications/Metals and Ceramics | 3 | | | |
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| ET 2372*, 2372L Materials and Fabrications/Plastics and Composites | | | | |
| ET 2375*, 2375L Electronic Devices and Circuits | | | | |
| ET 3301* Fundamentals of Manufacturing Technology | 3 | | | |
| ET 3360* Plant Design and Layout | | | | |
| ET 4314 Industrial Quality Assurance | | | | |
| ET 4370 Industrial Safety and Accident Prevention | | | | |
| ET 4380* Design Implementation | 3 | | | |
| CHEM 1411*, 1411L (101) Chemistry I AND CHEM 1412*, 1412 (102) Chemistry II | 8 | | | |
| MATH 2413* Calculus I FPI | 4 | | | |
| Take four courses from: ET/PHYS 3302 Wind Energy & Wind Turbines 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, CEI other courses after consulting with an adviser). | | | or | |
| ADVANCED ET COURSE (or other after advisor consultation | | | | |
| ADVANCED ET COURSE (or other after advisor consultation | _ | | | |
| ADVANCED ET COURSE (or other after advisor consultation | - | | | |
| 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 | 2-3 | | |
| MINIMUM HOURS REQUIRED TO COMPLETE DEGREE | | | | |

[◆] 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.

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.

^{*} 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.

WTAMU ADVISING SERVICES 2022-2023 Curriculum Guide

Major: Engineering Technology - Opt. I Major Code: 112

| First Year | Boldface type indica | tes major requirements. | Second Year | | | | | |
|---|----------------------------|---------------------------------------|--|--|--|--|--|--|
| Fall | | Spring | Fall | Spring | | | | |
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| Semester H | ours | Semester Hours | Semester Hours | Semester Hours | | | | |
| Third Year | | | Fourth Year | | | | | |
| Fall | | Spring | Fall | Spring | | | | |
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| Semester H | ours | Semester Hours | Semester Hours | Semester Hours | | | | |
| Degree To | otal Hours 120 | | | | | | | |
| DISCLAIMER: | This curriculum guide s | should be used in conjunction with tl | he corresponding degree checklist for g | general planning purposes only. The degree | | | | |
| checklist (late | er a student's official de | gree plan) should be referred to as t | the comprehensive list of all courses re | quired for the degree. An official degree plan | | | | |
| is required at | ter completing 30 nour | s. Students should always seek the a | advice of their academic adviser before | screduling classes. | | | | |
| Identified Marketable Skills: | | | Top 3 Local Employers or Industries/Professional | | | | | |
| | | | Programs/Pos | sible Career Opportunities | | | | |
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| Prerequisites/Important Sequences/Other degree Notes: | | | | | | | | |
| rierequis | ntes/important S | equences/Other degree N | utes: | | | | | |
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