## West Texas A\&M University

## Advising Services Degree Checklist 2019-2020

AC
This symbol indicates courses that apply towards degree programs at WT. All core classes are offered at AC. Please refer to the list regarding major specific courses. Course prefixes and numbers may vary at each institution. Please contact an adviser to ensure the course will apply towards chosen core area.

NAME:
WT ID:
DATE:

## Engineering Technology Option I—Renewable Energy Technology, Manufacturing/Industrial <br> School of Engineering, Computer Science and Mathematics <br> ECS Building, Room 119 651-5257



## 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 $1411^{*}, 1411 \mathrm{~L}$ (101) Chemistry I IND  <br> CHEM $1412^{*}, 1412$ (102) Chemistry II AC | 8 |  |
| MATH 2413* Calculus I AC | 4 |  |
| Take four courses from: <br> ET/PHYS 3302 Wind Energy \& Wind Turbines <br> ET/PHYS 3303 Solar Energy <br> ET 3315*, 3315L Digital Electronics <br> ET 3330*, 3330L Fluid Power/Power Transmission <br> ET 4301*, 4301L Machining Fundamentals <br> ET 4311* Industrial Design and Ergonomics <br> ET 4325*, 4325L Computer-Aided Drafting and Design <br> ET 4330*, 4330L Numerical Control and Computer-Aided <br> Manufacturing <br> ET 4350 Renewable Energy <br> ET 4351 Bioenergy <br> ET 4352 Geothermal Energy | 12 |  |
| ADVANCED ELECTIVES: 12 HOURS <br> Select four upper-level ET courses (or CS, MGT, ENGR, MENG, C other courses after consulting with an adviser). |  | G or |
| 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 <br> - Three hours if MATH 1316 is taken for University core (Core 20). | 2-3 |  |
| 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 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 are required to request an official degree plan by using the online Degree Plan Request form. The dean's office of the School of Engineering, Computer Science and Mathematics, located in the Engineering and Computer Science Building, Room 119 (or call 806-651-5257), can answer questions about the degree plan. Students who have completed 30 hours will not be allowed to progress without requesting a degree plan.

Engineering Technology - Option I—Renewable Energy Technology, Manufacturing/Industrial Engineering and Computer Science
Advising Services Bachelor of Science Degree BS.ENGR.TECH
2019-2020 Curriculum Guide


| Second Year |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Fall |  |  |  | Spring |  |
| H | ENGR 2301 | 3 |  | ET 2375 | 3 |
| 0 | CORE 10-COMM | 3 | 0 | ET 2372 | 3 |
| u | 1315, 1318 or 1321 |  | u |  |  |
| S | ET 2371 | 3 | S | CORE 30-LAB SCIENCE | 4 |
|  |  |  |  | PHYS 1401/1401L |  |
| 16 | CORE 60-HIST | 3 | 16 | ENGR 2302 | 3 |
|  | 1301, 1302, 2301 or 2 |  |  |  |  |
|  | CHEM 1412/1412L | 4 |  | CORE 60-HIST | 3 |
|  |  |  |  | 1301, 1302, 2301 or 2381 |  |



| Fourth Year |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Fall |  |  | Spring |  |  |
| H | FREE ELECTIVE | 3 | H | ET ADVANCED ELECTIVE | 3 |
|  |  |  |  | After consulting with adviser |  |
|  | ET 4380 | 3 | - | 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 |
|  | See Checklist for Options |  |  | 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 $\mathbf{3 0}$ hours. Students should always seek the advice of their academic adviser before scheduling classes.
8/18/19

