

Texas Tech University - McLennan Community College
Engineering Course Correlation

| Texas Tech University | McLennan Community College | MCC Course Title | Chemical Engr | Civil Engr | Computer Engr | Computer Sc | Construction Engr | Electrical Engr | Environmental Eng | Industrial Engr | Mechanical Engr | Petroleum Engr |
|---|----------------------------|--|---------------|------------|---------------|-------------|-------------------|-----------------|-------------------|-----------------|-----------------|----------------|
| STEM Courses | | | | | | | | | | | | |
| BIOL 1403 | BIOL 1406 | Biology for Science Majors I | | | | | | | √ | | | |
| BIOL 1404 | BIOL 1407 | Biology for Science Majors II | | | | | | | √ | | | |
| CHEM 1307 & 1107 | CHEM 1411 | General Chemistry I | √ | √ | | | √ | √ | √ | √ | √ | √ |
| CHEM 1308 & 1108 | CHEM 1412 | General Chemistry II | √ | √ | | | | | √ | √ | | |
| CHEM 3305 | CHEM 2423 | Organic Chemistry I | √ | | | | | | √ | | | |
| CHEM 3306 & 3106 | CHEM 2424 | Organic Chemistry II (ChemE Elective) | √ | | | | | | | | | |
| CS 1412 | COSC 1320 | C Programming | | | √ | √ | | | | | | |
| ENGR 1315 | ENGR 1201 | Intro to Engineering | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| ENGR 1206 or ENGR 1207 | ENGR 1304 | Engineering Graphics I | | √ | | | √ | | √ | √ | √ | |
| CONE 2302 | ENGR 1307 | Plane Surveying | | √ | | | √ | | | | | |
| ECE 1304, CHE 1305, CE 1305, ME 2315, PETR 1305, CS 1411, IE 1305 | ENGR 2304 | Programming for Engineers | √ | √ | √ | √ | | √ | √ | √ | √ | √ |
| EE 3302, ECE 3301 | ENGR 2305 & 2105 | Electrical Circuits Lecture & Lab | | | √ | | √ | √ | | √ | √ | |
| *IE 2324 | ENGR 2308 | Engineering Economics/Social & Behavioral Science Core <i>*ABET required adjunct for all Engineering majors</i> | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| ME 3403 or CE 2301 | ENGR 2332 | Mechanics of Materials | | √ | | | √ | | √ | √ | √ | √ |
| CHE 2410 | ENGR 2333 | Intro to Chemical Proceses | √ | | | | | | | | | |
| CHE 2421 | ENGR 2334 | Thermo I | √ | | | | | | | | | |
| CE 2301 or ME 2301 | ENGR 2401 | Engineering Mechanics - Statics | | √ | | | √ | | √ | √ | √ | √ |
| CE 3302 or ME 2301 | ENGR 2402 | Engineering Mechanics - Dynamics | | √ | | | √ | | | √ | √ | √ |
| ECE 2372 | ENGR 2406 | Digital Systems & Lab | | | √ | √ | | √ | | | | |
| BIOL 1305 & 1306 | ENVR 1301 & 1302 | Environmental Science & Lab | | | | | √** | | | | | |
| GEOL 1303 | GEOL 1403 | Physical Geology (lecture) | | √ | | | √** | | | | | √ |
| CS 1382 | MATH 2305 | Discrete Mathematics | | | √ | √ | | | | | | |
| MATH 2360 | MATH 2318 | Linear Algebra | | | √ | √ | | | | √ | √ | |
| MATH 3350 | MATH 2320 | Differential Equations | √ | √ | √ | | √ | √ | √ | √ | √ | √ |
| MATH 1451 | MATH 2413 | Calculus I | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| MATH 1452 | MATH 2414 | Calculus II | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| MATH 2450 | MATH 2415 | Calculus III | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| PHYS 1408 | PHYS 2425 | University Physics I | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| PHYS 2401 | PHYS 2426 | University Physics II | √ | √ | √ | √ | | √ | | √* | √ | √ |

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|----------------------------------|----------------------------|--------------------------------|---------------|------------|---------------|-------------|-------------------|-----------------|-------------------|-----------------|-----------------|----------------|
| Gen Ed Courses | | | | | | | | | | | | |
| ART 1309, ARTH 1301 or ARTH 1302 | ARTS 1301, 1303, or 1304 | Visual & Performing Arts Core | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| ENGL 1301 | ENGL 1301 | Freshman Composition I | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| ENGL 1302 | ENGL 1302 | Freshman Composition II | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| POLS 1301 | GOVT 2305 | National Government | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| POLS 2302 | GOVT 2306 | Texas Government | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| HIST 2300 | HIST 1301 | United States History I | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| HIST 2301 | HIST 1302 | History of the U.S. since 1876 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |

√** This marker in the same column means that student may choose to take either one or the other to apply to the degree plan.

√* For IE, Tech does not require Phys 2, but at MCC it is a prerequisite to take Engr 2305, which is an IE-required course.

To assist students to reduce overall educational costs students may complete coursework at McLennan Community College and apply the hours to the corresponding Texas Tech engineering degree provided the total number of semester credit hours to be applied to any Texas Tech engineering degree does not exceed a total of 72 semester credit hours.