

| | ! | Н | Course # | Course Title | Min. | GEC | Prerequisite | Additional Notes |
|----------|-----|----|-----------------------|---|---------------|-----|---|--|
| | | | | | l l | | For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI | |
| | | 3 | Choose 1 | Communication (Core) | С | 010 | reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" | See General Education Core for more details |
| | | | | , , | | | or better in ENGL 1301/1387. | Options: ENGL 1301 or ENGL 1387 (H) |
| | | | | | | | MATH 2412 with a grade of 'C' or better; or passing the Precalculus | |
| | | 4 | MATH 2413 | Caiculus I | С | 020 | Exemption Test administered by the Department of Mathematics. | |
| | , 🗆 | 2 | CCCI 1200 | Camaratan Salaman I | | 090 | Concurrent enrollment or credit for MATH 1314 or higher level | |
| FALL | | 3 | CSCI 1380 | Computer Science I | | 090 | mathematics course. | |
| | | 3 | CHEM 1307 | Chemistry for Engineers | С | | MATH 1314, MATH 1414, MATH 2412, or MATH 2487 with a grade of "C" | Other option: CHEM 1311 |
| ~ | | 3 | | | | | or higher." | Other Option: Chew 1311 |
| ΥEΑ | | 1 | CHEM 1107 | Chemistry for Engineers Lab | С | 090 | Credit/registration in CHEM 1307. | Other option: CHEM 1111 |
| ST | | | UNIV 1301 | Learning Framework | | | | Only if required, based on ACT/SAT and high school rank. |
| 뜶 | _ | 14 | | | | | | om, medanca, sasca om non, om and mgm someon and |
| | + | 14 | Semester | | | | For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI | |
| | | 3 | Choose 1 | Communication (Core) | | 010 | reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" | See General Education Core for more details |
| | | 3 | Choose 1 | Communication (Core) | | 010 | or better in ENGL 1301/1387. | Options: ENGL 1302 or ENGL 1388 (H) or ENGL 1305 |
| G | , — | 4 | MATH 2414 | Calculus II | С | | MATH 2413 (or MATH 2487) with a grade of 'C' or better. | |
| Ž | | 1 | | Introduction to Manufacturing Engineering | - | | WATT 2413 (OF WATT 2407) WITH a grade of C. of Better. | |
| SPRING | | 3 | | Engineering Statistics | С | | MATH 2413 (or MATH 2487). | |
| | | 2 | | Manufacturing Engineering Graphics | | | (III 2415 (II III XIII 2467). | |
| | | 3 | | Social and Behavioral Sciences (Core) | | 080 | | See General Education Core Curriculum |
| | | 16 | Semester | , , | | | | _ |
| | ! | Н | Course # | Course Title | Min. Grade | GEC | Prerequisite | Additional Notes |
| | | 3 | MANE 3351 | Manufacturing Engineering Analysis | | | MATH 2414 (or MATH 2488) and CSCI 1380 (or CSCI 1387). | |
| | | | PHYS 2425 | Physics for Scientists and Engineers I | С | 030 | MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or | |
| | | | FH13 2423 | | | 030 | MATH 2488). | |
| | | 3 | MANE 4311 | Quality Control | | | MANE 2332. | |
| FALL | | 3 | MECE 2340 | Engineering Materials | | | A grade of 'C' or better in CHEM 1307 and CHEM 1107 or CHEM 1312 and | |
| ¥ " | | | | | | | CHEM 1112, and credit/registration in MECE 2140. | |
| YE/ | | 1 | MECE 2140 | Engineering Materials Laboratory | | | A grade of 'C' or better in CHEM 1307 and CHEM 1107 or CHEM 1312 and | |
| 9 | | | | , | | | CHEM 1112, and credit/registration in MECE 2340. | |
| COND | _ | | MANE 3300 Semester | Computer-Aided Design | | | Either MANE 1204 or MECE 1221. | |
| SE | | 4 | MATH 2415 | Calculus III | | | MATH 2414 (or MATH 2488) with a grade of 'C' or better. | |
| | | 3 | | Operations Research | | | MANE 3351. | |
| ٧ | 2 | 4 | | Physics for Scientists and Engineers II | | 030 | PHYS 2425. | |
| 2 | | 3 | | Engineering Economics | | | Credit/registration in MANE 2332. | |
| 20 | , | 3 | | Fundamentals of Industrial Engineering | | | Credit/registration in MANE 2332. | |
| | | | | | | | | |
| | | 17 | Semester | 1 | - | | | |

| | | H | Course # | Course Title | Min. Grade | GEC | Prerequisite | Additional Notes |
|-------------|-------------|--|---|---|---------------|-----|--|---|
| | | 3 | Choose 1 | American History (Core) | | 060 | | See General Education Core for more details. |
| | | 4 | MANE 2403 | Engineering Mechanics | С | | Grade of 'C' or better in PHYS 2425. | Options: HIST 1301 or HIST 1387 or HIST/MASC 2327 |
| | | | | | + | | | |
| | | 3 | MATH 3341 | Differential Equations | | | MATH 2414 (or MATH 2488) and MATH 2318 with a grade of 'C' or better. | |
| | FALL | 3 | ELEE 2317 | Electrical and Electronic Systems | | | PHYS 2426. | |
| | ш. | 3 | MANE 3364 | Manufacturing Processes | | | Course or Test: MECE 2140. May not be taken concurrently. AND Course | |
| THIRD YEAR | | , | WAINE 3304 | Walland Toccsscs | | | or Test: MECE 2340. May not be taken concurrently. | |
| | | 1 | MANE 3164 | Manufacturing Processes Lab | | | Credit for MECE 2140 and credit/registration in MANE 3364. MECE 2340 | |
| | | 17 | Semester | | | | may not be taken concurrently. | |
| | | | Semester | | | | | See General Education Core for more details. |
| | | 3 | Choose 1 | American History (Core) | | 060 | | Options: HIST 1302 or HIST 1388 or HIST/MASC 2328 |
| | (D | 3 | MECE 3321 | Mechanics of Solids | | | A grade of C or better in MATH 2414 (or MATH 2488) and MECE 2301 or | |
| | SPRING | 3 | | | | | MANE 2403. | |
| | SPR | 3 | | Technical Elective I | | | | |
| | | 3 | | , , | | | Credit/registration in MANE 3364. | |
| | | 3 | | Tool Design | | | MANE 3300. | |
| | - | 10 | Choose 1 Semester | Creative Arts (Core) | | 050 | | See General Education Core Curriculum |
| | _ | | | • | Min. | CEC | Prerequisite | A Little Charles |
| | | | Course # | Course Title | | | | Additional Notes |
| | ! | Н | Course # | Course Title | Grade | | rielequisite | Additional Notes See General Education Core for more details |
| | T | 3 | Choose 1 | Government/Political Science (Core) | Grade | 070 | Frerequisite | |
| | | 3 | Choose 1 | Government/Political Science (Core) | Grade | | | See General Education Core for more details |
| | | 3 | Choose 1 | | Grade | | Credit/registration in MANE 4340. | See General Education Core for more details |
| | , , | 3 | Choose 1 MANE 4331 | Government/Political Science (Core) | Grade | | | See General Education Core for more details |
| | FALL | 3 | Choose 1 MANE 4331 | Government/Political Science (Core) Manufacturing Planning and Control | Grade | | Credit/registration in MANE 4340. MANE 3337. | See General Education Core for more details |
| ıR | FALL | 3 3 1 | Choose 1 MANE 4331 MANE 4173 | Government/Political Science (Core) Manufacturing Planning and Control | Grade | | Credit/registration in MANE 4340. MANE 3337. (MANE 3337 and credit/registration in MECE 3321) or (Grade of 'C' or better in MECE | See General Education Core for more details |
| YEAR | FALL | 3 1 3 | Choose 1 MANE 4331 MANE 4173 MANE 4361 | Government/Political Science (Core) Manufacturing Planning and Control Product Design and Mass Customization Senior Design I | Grade | | Credit/registration in MANE 4340. MANE 3337. | See General Education Core for more details |
| TH YEAR | FALL | 3 3 1 3 | Choose 1 MANE 4331 MANE 4173 MANE 4361 MANE 43XX | Government/Political Science (Core) Manufacturing Planning and Control Product Design and Mass Customization Senior Design I Technical Elective II | Grade | | Credit/registration in MANE 4340. MANE 3337. (MANE 3337 and credit/registration in MECE 3321) or (Grade of 'C' or better in MECE 3304 and MECE 3320, and credit/registration in MECE 3380, MECE 3360 and MECE 4350). | See General Education Core for more details |
| JURTH YEAR | FALL | 3 3 1 3 3 3 | Choose 1 MANE 4331 MANE 4173 MANE 4361 MANE 43XX MANE 4352 | Government/Political Science (Core) Manufacturing Planning and Control Product Design and Mass Customization Senior Design I | Grade | | Credit/registration in MANE 4340. MANE 3337. (MANE 3337 and credit/registration in MECE 3321) or (Grade of 'C' or better in MECE | See General Education Core for more details |
| FOURTH YEAR | FALL | 3 3 1 3 3 3 16 | Choose 1 MANE 4331 MANE 4173 MANE 4361 MANE 43XX MANE 4352 Semester | Government/Political Science (Core) Manufacturing Planning and Control Product Design and Mass Customization Senior Design I Technical Elective II Manufacturing Simulation | Grade | 070 | Credit/registration in MANE 4340. MANE 3337. (MANE 3337 and credit/registration in MECE 3321) or (Grade of 'C' or better in MECE 3304 and MECE 3320, and credit/registration in MECE 3380, MECE 3360 and MECE 4350). | See General Education Core for more details |
| FOURTH YEAR | FALL | 3 3 1 3 3 3 16 | Choose 1 MANE 4331 MANE 4173 MANE 4361 MANE 43XX MANE 4352 Semester Choose 1 | Government/Political Science (Core) Manufacturing Planning and Control Product Design and Mass Customization Senior Design I Technical Elective II Manufacturing Simulation Government/Political Science (Core) | Grade | | Credit/registration in MANE 4340. MANE 3337. (MANE 3337 and credit/registration in MECE 3321) or (Grade of 'C' or better in MECE 3304 and MECE 3320, and credit/registration in MECE 3380, MECE 3360 and MECE 4350). | See General Education Core for more details Options: POLS 2305 or POLS 2385 (H) |
| FOURTH YEAR | | 3 3 1 3 3 3 16 | Choose 1 MANE 4331 MANE 4173 MANE 4361 MANE 43XX MANE 4352 Semester Choose 1 | Government/Political Science (Core) Manufacturing Planning and Control Product Design and Mass Customization Senior Design I Technical Elective II Manufacturing Simulation | Grade | 070 | Credit/registration in MANE 4340. MANE 3337. (MANE 3337 and credit/registration in MECE 3321) or (Grade of 'C' or better in MECE 3304 and MECE 3320, and credit/registration in MECE 3380, MECE 3360 and MECE 4350). Grade of 'C' or better in MANE 2332 | See General Education Core for more details Options: POLS 2305 or POLS 2385 (H) See General Education Core for more details |
| FOURTH YEAR | | 3 3 1 3 3 3 16 | Choose 1 MANE 4331 MANE 4173 MANE 4361 MANE 43XX MANE 4352 Semester Choose 1 | Government/Political Science (Core) Manufacturing Planning and Control Product Design and Mass Customization Senior Design I Technical Elective II Manufacturing Simulation Government/Political Science (Core) | Grade | 070 | Credit/registration in MANE 4340. MANE 3337. (MANE 3337 and credit/registration in MECE 3321) or (Grade of 'C' or better in MECE 3304 and MECE 3320, and credit/registration in MECE 3380, MECE 3360 and MECE 4350). Grade of 'C' or better in MANE 2332 Grade of 'C' or better in either MANE 2403, or MECE 2301, and | See General Education Core for more details Options: POLS 2305 or POLS 2385 (H) See General Education Core for more details |
| FOURTH YEAR | SPRING FALL | 3 3 1 3 3 3 16 3 4 | Choose 1 MANE 4331 MANE 4173 MANE 4361 MANE 4352 Semester Choose 1 MANE 43XX MANE 43XX MANE 3437 | Government/Political Science (Core) Manufacturing Planning and Control Product Design and Mass Customization Senior Design I Technical Elective II Manufacturing Simulation Government/Political Science (Core) Technical Elective III Thermal and Fluid Sciences | Grade | 070 | Credit/registration in MANE 4340. MANE 3337. (MANE 3337 and credit/registration in MECE 3321) or (Grade of 'C' or better in MECE 3304 and MECE 3320, and credit/registration in MECE 3380, MECE 3360 and MECE 4350). Grade of 'C' or better in MANE 2332 | See General Education Core for more details Options: POLS 2305 or POLS 2385 (H) See General Education Core for more details Options: POLS 2306 or POLS 2386 (H) |
| FOURTH YEAR | | 3 3 1 3 3 3 16 3 | Choose 1 MANE 4331 MANE 4173 MANE 4361 MANE 4352 Semester Choose 1 MANE 43XX | Government/Political Science (Core) Manufacturing Planning and Control Product Design and Mass Customization Senior Design I Technical Elective II Manufacturing Simulation Government/Political Science (Core) Technical Elective III | Grade | 070 | Credit/registration in MANE 4340. MANE 3337. (MANE 3337 and credit/registration in MECE 3321) or (Grade of 'C' or better in MECE 3304 and MECE 3320, and credit/registration in MECE 3380, MECE 3360 and MECE 4350). Grade of 'C' or better in MANE 2332 Grade of 'C' or better in either MANE 2403, or MECE 2301, and | See General Education Core for more details Options: POLS 2305 or POLS 2385 (H) See General Education Core for more details |
| FOURTH YEAR | | 3 3 1 3 3 3 4 3 3 | Choose 1 MANE 4331 MANE 4173 MANE 4361 MANE 4352 Semester Choose 1 MANE 43XX MANE 3437 Choose 1 | Government/Political Science (Core) Manufacturing Planning and Control Product Design and Mass Customization Senior Design I Technical Elective II Manufacturing Simulation Government/Political Science (Core) Technical Elective III Thermal and Fluid Sciences | Grade | 070 | Credit/registration in MANE 4340. MANE 3337. (MANE 3337 and credit/registration in MECE 3321) or (Grade of 'C' or better in MECE 3304 and MECE 3320, and credit/registration in MECE 3380, MECE 3360 and MECE 4350). Grade of 'C' or better in MANE 2332 Grade of 'C' or better in either MANE 2403, or MECE 2301, and | See General Education Core for more details Options: POLS 2305 or POLS 2385 (H) See General Education Core for more details Options: POLS 2306 or POLS 2386 (H) Options: PHIL 1310 (Must enroll in Engineering designated section) or |

CORE: The 2017-2018 list of core courses can be found at: www.utrgv.edu > Academics > Undergraduate > General Education Core www.utrgv.edu/core

Graduation Requirements

131 TOTAL HOURS (60) TOTAL ADVANCED HOURS Approved: Dr. Rajiv Nambiar Revised: Thursday, December 21, 2017

Symbols Key

S - Satisfactory.

Critical ('!'): sequence sensitive course.

Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative Arts; 060 - language proficiency in a language other than English at the American History; 070 - Government/Political Science; 080 - Social and Behavioral Sciences; 090 - Computer Application; 090 - Interdisciplinary; 090 - Science Labs; 090 -Wellness.

General Education Core (GEC) Sections: 010 - Communication; 020 - Mathematics; 030 - Language Proficiency Requirement: Student is required to demonstrate undergraduate level equivalent to a minimum of six credits.