

| | H | Course # | Course Title | Min. Grade | GEC | Prerequisite | Additional Notes | |
|--------------------------------|--------|--------------------------------|--------------|---|--------------------|--------------|---|---|
| FIRST YEAR | FALL | 3 | Choose 1 | Communication (Core) | C | 010 | For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387. | See General Education Core for more details Options: ENGL 1301 or ENGL 1387 (H) |
| | | 4 | MATH 2413 | Calculus I | C | 020 | MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics. | Prerequisite for MATH 2412: MATH 1314/1414 with a grade of "C" or better or passing Exemption Test administered by Department of Mathematics |
| | | 3 | Choose 1 | American History (Core) | | 060 | | See General Education Core for more details. Options: HIST 1301 or HIST 1387 (H) or HIST/MASC 2327 |
| | | 3 | Choose 1 | Integrative/Experiential Learning Option (Core) | | 090 | | Recommended: CSCI 1380 |
| | | 3 | Choose 1 | Creative Arts (Core) | | 050 | | See General Education Core for course options. |
| | | | | UNIV 1301 | Learning Framework | | | |
| 16 Semester Total Hours | | | | | | | | |
| SECOND YEAR | SPRING | 3 | Choose 1 | Communication (Core) | C | 010 | For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387. | See General Education Core for more details Options: ENGL 1302 or ENGL 1388 (H) or ENGL 1305 |
| | | 4 | MATH 2414 | Calculus II | C | | MATH 2413 (or MATH 2487) with a grade of 'C' or better. | |
| | | 3 | MATH 2318 | Linear Algebra | C | | MATH 2413 (or MATH 2487) with a grade of 'C' or better. | |
| | | 3 | Choose 1 | American History (Core) | | 060 | | See General Education Core for more details. Options: HIST 1302 or HIST 1388 (H) or HIST/MASC 2328 |
| | | 3 | Choose 1 | Social and Behavioral Sciences (Core) | | 080 | | Recommended: ECON 1301 or ECON 2301 |
| 16 Semester Total Hours | | | | | | | | |
| SECOND YEAR | FALL | 4 | MATH 2415 | Calculus III | C | | MATH 2414 (or MATH 2488) with a grade of 'C' or better. | |
| | | 3 | MATH 3341 | Differential Equations | C | | MATH 2414 (or MATH 2488) with a grade of 'C' or better. | |
| | | 3 | Choose 1 | Government/Political Science (Core) | | 070 | | See General Education Core for more details Options: POLS 2305 or POLS 2385 (H) |
| | | 4 | Choose 1 | Life and Physical Sciences (Core) | | 030/090 | | Recommended: PHYS 2425 |
| | | 3 | Choose 1 | Language, Philosophy & Culture (Core) | | 040 | | See General Education Core for course options. |
| | | 17 Semester Total Hours | | | | | | |
| SECOND YEAR | SPRING | 3 | MATH 3352 | Modern Geometry I | C | | MATH 2318 with a grade of 'C' or better. | |
| | | 3 | MATH 3350 | Introduction to Mathematical Proof | C | | MATH 2318 with a grade of 'C' or better. | |
| | | 3 | Choose 1 | Government/Political Science (Core) | | 070 | | See General Education Core for more details Options: POLS 2306 or POLS 2386 (H) |
| | | 1 | Choose 1 | Integrative/Experiential Learning Option (Core) | | 090 | | See General Education Core for course options. |
| | | 4 | Choose 1 | Life and Physical Sciences (Core) | | 030/090 | | Recommended: PHYS 2426 |
| 14 Semester Total Hours | | | | | | | | |

CORE: The 2019-2020 list of core courses can be found at: www.utrgv.edu > Academics > Undergraduate > General Education Core
www.utrgv.edu/core

Symbols Key

Critical (!): sequence sensitive course.

Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory.

General Education Core (GEC) Sections: 010 - Communication; 020 - Mathematics; 030 - Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative Arts; 060 - American History; 070 - Government/Political Science; 080 - Social and Behavioral Sciences; 090 - Applied Communication and Literacies; 090 - Humanities; 090 - Leadership; 090 - Science Labs; 090 - Interdisciplinary ; 090 - Technologies; 090 - Language Diversity & Writing.

| | | H | Course # | Course Title | Min. Grade | GEC | Prerequisite | Additional Notes | |
|-------------|--------|--------------------------------|--------------------------------|--------------------------------|-------------------------|------------|--|---|---|
| THIRD YEAR | FALL | 3 | MATH 3363 | Modern Algebra I | C | | MATH 2318 and MATH 3350, each with a grade of 'C' or better. | | |
| | | 3 | 33XX-43XX | Major Advanced Elective | | | | College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE | |
| | | 3 | 33XX-43XX | Major Advanced Elective | | | | College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE | |
| | | 3 | X3XX X3XX | Major Elective | | | | College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE | |
| | | 3 | X3XX X3XX | Free Elective | | | | | |
| | | | 15 Semester Total Hours | | | | | | |
| THIRD YEAR | SPRING | 3 | MATH 3372 | Real Analysis I | C | | MATH 2414 (or MATH 2488) and MATH 3350, each with a grade of 'C' or better. | | |
| | | 3 | STAT 3337 | Probability and Statistics | C | | MATH 2414 (or MATH 2488) with a grade of 'C' or better. | | |
| | | 3 | 33XX-43XX | Major Advanced Elective | | | | College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE | |
| | | 3 | 33XX-43XX | Major Advanced Elective | | | | College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE | |
| | | 3 | X3XX X3XX | Free Elective | | | | | |
| | | | 15 Semester Total Hours | | | | | | |
| FOURTH YEAR | | | H | Course # | Course Title | Min. Grade | GEC | Prerequisite | Additional Notes |
| | FALL | 3 | MATH 4390 | Mathematics Project | C | | MATH 2318, MATH 3350, and 9 additional advanced hours of MATH, all with grades of 'C' or better. | | |
| | | | 3 | 33XX-43XX | Major Advanced Elective | | | | College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE |
| | | | 3 | 33XX-43XX | Major Advanced Elective | | | | College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE |
| | | | 3 | X3XX X3XX | Free Advanced Elective | | | | |
| | | | 3 | X3XX X3XX | Free Elective | | | | |
| | | | | 15 Semester Total Hours | | | | | |
| | SPRING | | 3 | 33XX-43XX | Major Advanced Elective | | | | College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE |
| | | | 3 | X3XX X3XX | Major Elective | | | | College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE |
| | | | 3 | 33XX-43XX | Free Advanced Elective | | | | |
| | | 3 | XXXX X3XX | Free Elective | | | | | |
| | | 12 Semester Total Hours | | | | | | | |

Graduation Requirements:

1. The student must complete all these major course requirements and all MATH and MATE courses with grades of 'C' or better and have a GPA for the major of 2.5 or better.

120 TOTAL HOURS

(48) TOTAL ADVANCED HOURS

Approved: Thursday, June 13, 2019

Revised: Monday, May 6, 2019