

|                                | H | Course #               | Course Title   | Min. Grade | GEC     | Prerequisite  | Additional Notes  |
|--------------------------------|---|------------------------|--|------------|---------|---|---|
| FALL<br>FIRST YEAR             | 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, a grade of "C" or better in ENGL 1301. | See General Education Core for more details<br><b>Options: ENGL 1301</b>                    |
|                                | 3 | Choose 1               | American History (Core)  |            | 060     |   | See General Education Core for more details.<br><b>Options: HIST 1301 or HIST/MASC 2327</b> |
|                                | 3 | POLS 2305              | U.S. Federal Government & Politics (Core)  |            | 070     |   | See General Education Core for more details   |
|                                | 4 | MATH 2413              | Calculus I   | C          |         | MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.                                     |   |
|                                | 3 | MATH 1342 or MATH 1343 | Elementary Statistical Methods or Introduction to Biostatistics (Core)                           | C          | 020     | College Ready TSI status in Mathematics or MATH 0314/0332/0342.   |   |
|                                |   | UNIV                   | 1301 Learning Framework<br>1101 Academic and Career Success<br>1001 Living and Working by Design |            |         |   | As required, based on credit hours earned, TSI status, High school rank, major declaration  |
| <b>16 Semester Total Hours</b> |   |                        |  |            |         |   |   |
| SPRING<br>FIRST YEAR           | 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, a grade of "C" or better in ENGL 1301. | See General Education Core for more details<br><b>Options: ENGL 1302 or ENGL 1305</b>       |
|                                | 3 | Choose 1               | American History (Core)  |            | 060     |   | See General Education Core for more details.<br><b>Options: HIST 1302 or HIST/MASC 2328</b> |
|                                | 3 | POLS 2306              | Texas Government & Politics (Core)   |            | 070     |   | See General Education Core for more details   |
|                                | 3 | MATH 2318              | Linear Algebra   | C          |         | MATH 2413 with a grade of 'C' or better.  |   |
|                                | 4 | MATH 2414              | Calculus II  | C          |         | MATH 2413 with a grade of 'C' or better.  |   |
| <b>16 Semester Total Hours</b> |   |                        |  |            |         |   |   |
|                                | H | Course #               | Course Title   | Min. Grade | GEC     | Prerequisite  | Additional Notes  |
| FALL<br>SECOND YEAR            | 4 | PHYS 2425 or BIOL 1406 | Physics for Scientists and Engineers I or General Biology I (Core)                               |            | 030/090 | For PHYS 2425: MATH 2413 and concurrent enrollment in MATH 2414.  |   |
|                                | 3 | CSCI 1380              | Computer Science I (Core)  |            | 090     | Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.   |   |
|                                | 3 | STAT 3301              | Applied Statistics   | C          |         | MATH 2413 with a grade of 'C' or better.  |   |
|                                | 3 | STAT 3337              | Probability and Statistics   | C          |         | MATH 2414 with a grade of 'C' or better.  |   |
|                                | 4 | MATH 2415              | Calculus III   | C          |         | MATH 2414 with a grade of 'C' or better.  |   |
| <b>17 Semester Total Hours</b> |   |                        |  |            |         |   |   |
| SPRING<br>SECOND YEAR          | 4 | PHYS 2426 or BIOL 1407 | Physics for Scientists and Engineers II or General Biology II (Core)                             |            | 030/090 | For PHYS 2426: PHYS 2425 (or PHYS 2411).<br>For BIOL 1407: BIOL 1406 or BIOL 1487.  |   |
|                                | 3 | Choose 1               | Language, Philosophy & Culture (Core)  |            | 040     |   | See General Education Core for course options.  |
|                                | 3 | STAT 2336              | Statistical Computing and Data Management  | C          |         | CSCI 1380 or STAT 2331  |   |
|                                | 3 | STAT 3338              | Mathematical Statistics  | C          |         | STAT 3337 with a grade of 'C' or better.  |   |
|                                | 3 | ECON 1301 or ECON 2301 | Introduction to Economics or ECON 2301 Principles of Macroeconomics (Core)                       |            | 080     |   |   |
| <b>16 Semester Total Hours</b> |   |                        |  |            |         |   |   |

**CORE: The 2021-2022 list of core courses can be found in the 2021-2022 Undergraduate Catalog: [www.utrgv.edu](http://www.utrgv.edu) > See 'Core Curriculum'**

**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 - Computer Application; 090 - Interdisciplinary ;090 - Science Labs; 090 - Wellness.

|                                | H      | Course #                       | Course Title | Min. Grade                                      | GEC | Prerequisite | Additional Notes  |   |
|--------------------------------|--------|--------------------------------|--------------|---|-----|--------------|---|---|
| THIRD YEAR                     | FALL   | 3                              | Choose 1     | Creative Arts (Core)                            |     | 050          |   | See General Education Core for course options.                                    |
|                                |        | 1                              | Choose 1     | Integrative/Experiential Learning Option (Core) |     | 090          |   | See General Education Core for course options.                                    |
|                                |        | 3                              | 3XXX-4XXX    | Advanced Math Elective                          |     |              |   |   |
|                                | SPRING | 3                              | 3XXX-4XXX    | Advanced Statistics Elective                    |     |              |   | STAT 3351 Multivariate Analysis or STAT 4399 Special Topics in Statistics         |
|                                |        | 3                              | STAT 3335    | Applied Regression Analysis                     | C   |              | MATH 2318 and STAT 3301 both with grade of 'C' or better                              |   |
|                                |        | 3                              | XXXX X3XX    | Free Elective                                   |     |              |   |   |
| <b>16 Semester Total Hours</b> |        |                                |              |   |     |              |   |   |
| THIRD YEAR                     | SPRING | 3                              | 3XXX-4XXX    | Advanced Math Elective                          |     |              |   |   |
|                                |        | 3                              | 3XXX-4XXX    | Advanced Statistics Elective                    |     |              |   | STAT 3352 Introduction to Linear Models or STAT 4399 Special Topics in Statistics |
|                                |        | 3                              | STAT 3336    | Sampling  | C   |              | STAT 3301 with a grade of 'C' or better.  |   |
|                                |        | 3                              | XXXX X3XX    | Free Elective                                   |     |              |   |   |
| <b>12 Semester Total Hours</b> |        |                                |              |   |     |              |   |   |
|                                | H      | Course #                       | Course Title | Min. Grade                                      | GEC | Prerequisite | Additional Notes  |   |
| FOURTH YEAR                    | FALL   | 3                              | 3XXX-4XXX    | Advanced Math Elective                          |     |              |   |   |
|                                |        | 3                              | 3XXX 43XX    | Free Advanced Elective                          |     |              |   |   |
|                                |        | 3                              | 3XXX-4XXX    | Advanced Statistics Elective                    |     |              |   | Existing STAT Elective or STAT 4399 Special Topics in Statistics                  |
|                                | SPRING | 3                              | STAT 4390    | Statistical Project (joint with Math Project)   | C   |              | STAT 2336, STAT 3335, and 9 advanced hours of STAT, all with grades of 'C' or better. |   |
|                                |        | 3                              | XXXX X3XX    | Free Elective                                   |     |              |   |   |
|                                |        | <b>15 Semester Total Hours</b> |              |   |     |              |   |   |
| FOURTH YEAR                    | SPRING | 3                              | XXXX X3XX    | Free Elective                                   |     |              |   |   |
|                                |        | 3                              | 3XXX-4XXX    | Advanced Statistics Elective                    |     |              |   | Existing STAT Elective or STAT 4399 Special Topics in Statistics                  |
|                                |        | 3                              | STAT 4332    | Experimental Design and Analysis                | C   |              | STAT 2336, STAT 3335, and 9 advanced hours of statistics, all with a "C" or better.   |   |
|                                |        | 3                              | XXXX X3XX    | Free Elective                                   |     |              |   |   |
| <b>12 Semester Total Hours</b> |        |                                |              |   |     |              |   |   |

**Major Graduation Requirements:**

Major requirements must be completed with a minimum grade of 'C' and a minimum GPA of 2.5.

**120 TOTAL HOURS**

**42 Advanced minimum credit hours**

Approved: Saturday, October 23, 2021

Revised: Sunday, October 3, 2021