

|                                    |                                    | !                                  | H        | A                                   | 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<br>Options: ENGL 1301 or ENGL 1387 (H)                |   |   |
|                                    |                                    |                                    | 4        |                                     | MATH 2413 | Calculus I                                      |                          | 020  | MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.   |   |   |   |
|                                    |                                    |                                    | 3        |                                     | CHEM 1311 | General Chemistry I                             |                          | 030  | MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."   |   |   |   |
|                                    |                                    |                                    | 1        |                                     | CHEM 1111 | General Chemistry I Lab                         |                          | 090  | Credit/registration in CHEM 1301.   |   |   |   |
|                                    |                                    |                                    | 1        |                                     | UTCH 1101 | Inquiry Approaches to Teaching                  |                          |  | Criminal background check and TB vaccine.   |   |   |   |
|                                    |                                    |                                    | 3        |                                     | Choose 1  | Social and Behavioral Sciences (Core)           |                          | 080  |   | See General Education Core for course options.  |   |   |
|                                    |                                    |                                    | 3        |                                     | Choose 1  | Creative Arts (Core)                            |                          | 050  |   | See General Education Core for course options.  |   |   |
|                                    |                                    |                                    |          |                                     | UNIV 1301 | Learning Framework                              |                          |  |   | Only if required, based on ACT/SAT and high school rank.  |   |   |
|                                    |                                    | <b>18 (0) Semester Total Hours</b> |          |                                     |           |   |                          |  |   |   |   |   |
|                                    |                                    | FIRST 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<br>Options: ENGL 1302 or ENGL 1388 (H) or ENGL 1305 |
|                                    | 4                                  |                                    |          |                                     | MATH 2414 | Calculus II                                     |                          |  | MATH 2413 (or MATH 2487) with a grade of 'C' or better.   |   |   |   |
|                                    | 3                                  |                                    |          |                                     | CHEM 1312 | General Chemistry II                            |                          |  | CHEM 1311.  |   |   |   |
|                                    | 1                                  |                                    |          |                                     | CHEM 1112 | General Chemistry II Lab                        |                          |  | Credit/registration in CHEM 1312.   |   |   |   |
|                                    | 4                                  |                                    |          |                                     | PHYS 2411 | Physics for Teachers I                          |                          |  | MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488).   |   |   |   |
|                                    | 1                                  |                                    |          |                                     | Choose 1  | Integrative/Experiential Learning Option (Core) |                          | 090  |   | See General Education Core for course options.  |   |   |
|                                    | 1                                  |                                    |          |                                     | UTCH 1102 | Inquiry-Based Lesson Design                     |                          |  | UTCH 1101 with a grade of 'C' or better or concurrent enrollment with UTCH 1101.  |   |   |   |
| <b>17 (0) Semester Total Hours</b> |                                    |                                    |          |                                     |           |   |                          |  |   |   |   |   |
| SECOND YEAR                        | FALL                               |                                    | 4        |                                     | MATH 2415 | Calculus III                                    |                          |  | MATH 2414 (or MATH 2488) with a grade of 'C' or better.   |   |   |   |
|                                    |                                    |                                    | 4        |                                     | PHYS 2412 | Physics for Teachers II                         |                          |  | MATH 2414 (or MATH 2488) and either PHYS 2411 or PHYS 2425.   |   |   |   |
|                                    |                                    |                                    | 3        |                                     | CHEM 2323 | Organic Chemistry I                             |                          |  |   |   |   |   |
|                                    |                                    |                                    | 1        |                                     | CHEM 2123 | Organic Chemistry I Lab                         |                          |  | Credit/registration in CHEM 2323.   |   |   |   |
|                                    |                                    |                                    | 3        |                                     | Choose 1  | American History (Core)                         |                          | 060  |   | See General Education Core for more details.<br>Options: HIST 1301 or HIST 1387 or HIST/MASC 2327 |   |   |
|                                    | <b>15 (0) Semester Total Hours</b> |                                    |          |                                     |           |   |                          |  |   |   |   |   |
|                                    | SECOND YEAR                        | SPRING                             |          | 3                                   |           | CHEM 2325                                       | Organic Chemistry II     |  |   |   |   |   |
|                                    |                                    |                                    |          | 1                                   |           | CHEM 2125                                       | Organic Chemistry II Lab |  |   | CHEM 2123.  |   |   |
|                                    |                                    |                                    |          | 4 (4)                               |           | PHYS 3402                                       | Modern Physics           |  |   | PHYS 2426.  |   |   |
|                                    |                                    |                                    |          | 3                                   |           | Choose 1  | American History (Core)  |  | 060   |   | See General Education Core for more details.<br>Options: HIST 1302 or HIST 1388 or HIST/MASC 2328   |   |
|                                    |                                    |                                    | 3        |                                     | Choose 1  | Language, Philosophy & Culture (Core)           |                          | 040  |   | See General Education Core for course options.  |   |   |
|                                    | 3                                  |                                    | Choose 1 | Government/Political Science (Core) |           | 070   |                          | See General Education Core for more details<br>Options: POLS 2305 or POLS 2385 (H) |   |   |   |   |
| <b>17 (4) Semester Total Hours</b> |                                    |                                    |          |                                     |           |   |                          |  |   |   |   |   |

**CORE: The 2017-2019 list of core courses can be found at: [www.utrgv.edu](http://www.utrgv.edu) > Academics > Undergraduate > General Education Core [www.utrgv.edu/core](http://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 - Computer Application; 090 - Interdisciplinary ;090 - Science Labs; 090 - Wellness.

**Language Proficiency Requirement:** Student is required to demonstrate language proficiency in a language other than English at the undergraduate level equivalent to a minimum of six credits.

|  |        | I | H   | A | Course #  | Course Title                                    | Min. Grade | GEC | Prerequisite   | Additional Notes   |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|--|--------|---|-----|---|-----------|---|------------|-----|--|--|--|--|---|---|---|----------|--------------|------------|-----|--------------|------------------|-------------|------|---|-----|--|-----------|----------------|--|--|------------|--|---|-----|--|-----------|-------------------|--|--|--------------------------|--|---|-----|--|-----------|-----------------------|--|--|--|--|---|-----|--|-----------|------------------|--|--|--|--|---|-----|--|-----------|---------------------------|--|--|--|--|-------------------------------------|--|--|--|--|--|--|--|--|--|--|-------------|--------|---|-----|--|-----------|---------------------|--|--|--------------------------------------|--|---|-----|--|-----------|-----------------------------|--|--|--|--|---|-----|--|-----------|---------------------|--|--|--|--|-------------------------------------|--|--|--|--|--|--|--|--|--|--|
| THIRD YEAR   | FALL   | 3 | (3) |   | PHYS 3301 | Electromagnetic Theory I                        |            |     | MATH 2415 and either PHYS 2426 or PHYS 2412.   |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 1 | (1) |   | PHYS 3101 | Junior Laboratory Research I                    |            |     | Consent of instructor and either PHYS 2426 or PHYS 2412.   |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 3 | (3) |   | PHIL 3317 | Perspectives on Science and Mathematics         |            |     | UTCH 1101, UTCH 1102   |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 3 |     |   | Choose 1  | Government/Political Science (Core)             |            | 070 |  | See General Education Core for more details<br>Options: POLS 2306 or POLS 2386 (H) |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 3 |     |   | Choose 1  | Integrative/Experiential Learning Option (Core) |            | 090 |  | See General Education Core for course options.                                     |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 3 | (3) |   | UTCH 3301 | Knowing and Learning in Mathematics and Science |            |     | UTCH 1101 and UTCH 1102 with a grade of 'C' or better or concurrent enrollment with UTCH 1101 and/or UTCH 1102 with consent of UTeach advisor.   |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
| <b>16 (10) Semester Total Hours</b>  |        |   |     |   |           |   |            |     |  | Must apply to Teacher Education Program.   |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
| THIRD YEAR   | SPRING | 3 |     |   | CHEM 2301 | Analytical Chemistry                            |            |     |  |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 3 | (3) |   | PHYS 3330 | Functions and Modeling                          |            |     | A grade of 'C' or better in the following: MATH 2413 (or MATH 2487)  |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 4 | (4) |   | PHYS 3404 | Optics  |            |     | MATH 2415 and either PHYS 2412 or PHYS 2426.   |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 3 | (3) |   | UTCH 3302 | Classroom Interactions                          |            |     | (a) A university grade point average of at least 2.75, (b) UTCH 3301   |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
| <b>13 (10) Semester Total Hours</b>  |        |   |     |   |           |   |            |     |  |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
| <table border="1"> <thead> <tr> <th colspan="2"></th> <th>I</th> <th>H</th> <th>A</th> <th>Course #</th> <th>Course Title</th> <th>Min. Grade</th> <th>GEC</th> <th>Prerequisite</th> <th>Additional Notes</th> </tr> </thead> <tbody> <tr> <td rowspan="5">FOURTH YEAR</td> <td rowspan="5">FALL</td> <td>3</td> <td>(3)</td> <td></td> <td>CHEM 3303</td> <td>Biochemistry I</td> <td></td> <td></td> <td>CHEM 2323.</td> <td></td> </tr> <tr> <td>4</td> <td>(4)</td> <td></td> <td>PHYS 4401</td> <td>Physics Education</td> <td></td> <td></td> <td>PHYS 3301 and PHYS 3404.</td> <td></td> </tr> <tr> <td>3</td> <td>(3)</td> <td></td> <td>READ 4305</td> <td>Content Area Literacy</td> <td></td> <td></td> <td>Admission to COE Teacher Education Program</td> <td></td> </tr> <tr> <td>3</td> <td>(3)</td> <td></td> <td>PHYS 4392</td> <td>Research Methods</td> <td></td> <td></td> <td>Grade C or better in the following: MATH 2413 (or MATH 2487) and</td> <td></td> </tr> <tr> <td>3</td> <td>(3)</td> <td></td> <td>UTCH 3303</td> <td>Project-Based Instruction</td> <td></td> <td></td> <td>(a) A university grade point average of at least 2.75, (b) UTCH 3302</td> <td></td> </tr> <tr> <td colspan="10"><b>16 (16) Semester Total Hours</b></td> <td></td> </tr> <tr> <td rowspan="3">FOURTH YEAR</td> <td rowspan="3">SPRING</td> <td>4</td> <td>(4)</td> <td></td> <td>CHEM 4401</td> <td>Chemistry Education</td> <td></td> <td></td> <td>CHEM 1111, CHEM 1112, and CHEM 1312.</td> <td></td> </tr> <tr> <td>1</td> <td>(1)</td> <td></td> <td>UTCH 4101</td> <td>Apprentice Teaching Seminar</td> <td></td> <td></td> <td>(a) A university grade point average of at least 2.75, (b) UTCH 3303 with a grade of 'C' or better, (c) concurrent enrollment with UTCH 4601, (d) successful completion of PPR and content TExES examinations, and (e) acceptance of the third-stage UTeach portfolio.</td> <td></td> </tr> <tr> <td>6</td> <td>(6)</td> <td></td> <td>UTCH 4601</td> <td>Apprentice Teaching</td> <td></td> <td></td> <td>(a) A university grade point average of at least 2.75, (b) UTCH 3303 with a grade of 'C' or better, (c) successful completion of PPR and content TExES examinations, and (d) acceptance of the third-stage UTeach portfolio.</td> <td></td> </tr> <tr> <td colspan="10"><b>11 (11) Semester Total Hours</b></td> <td></td> </tr> </tbody> </table> |        |   |     |   |           |   |            |     |  |  |  |  | I | H | A | Course # | Course Title | Min. Grade | GEC | Prerequisite | Additional Notes | FOURTH YEAR | FALL | 3 | (3) |  | CHEM 3303 | Biochemistry I |  |  | CHEM 2323. |  | 4 | (4) |  | PHYS 4401 | Physics Education |  |  | PHYS 3301 and PHYS 3404. |  | 3 | (3) |  | READ 4305 | Content Area Literacy |  |  | Admission to COE Teacher Education Program |  | 3 | (3) |  | PHYS 4392 | Research Methods |  |  | Grade C or better in the following: MATH 2413 (or MATH 2487) and |  | 3 | (3) |  | UTCH 3303 | Project-Based Instruction |  |  | (a) A university grade point average of at least 2.75, (b) UTCH 3302 |  | <b>16 (16) Semester Total Hours</b> |  |  |  |  |  |  |  |  |  |  | FOURTH YEAR | SPRING | 4 | (4) |  | CHEM 4401 | Chemistry Education |  |  | CHEM 1111, CHEM 1112, and CHEM 1312. |  | 1 | (1) |  | UTCH 4101 | Apprentice Teaching Seminar |  |  | (a) A university grade point average of at least 2.75, (b) UTCH 3303 with a grade of 'C' or better, (c) concurrent enrollment with UTCH 4601, (d) successful completion of PPR and content TExES examinations, and (e) acceptance of the third-stage UTeach portfolio. |  | 6 | (6) |  | UTCH 4601 | Apprentice Teaching |  |  | (a) A university grade point average of at least 2.75, (b) UTCH 3303 with a grade of 'C' or better, (c) successful completion of PPR and content TExES examinations, and (d) acceptance of the third-stage UTeach portfolio. |  | <b>11 (11) Semester Total Hours</b> |  |  |  |  |  |  |  |  |  |  |
|  |        | I | H   | A | Course #  | Course Title                                    | Min. Grade | GEC | Prerequisite   | Additional Notes   |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
| FOURTH YEAR  | FALL   | 3 | (3) |   | CHEM 3303 | Biochemistry I                                  |            |     | CHEM 2323.   |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 4 | (4) |   | PHYS 4401 | Physics Education                               |            |     | PHYS 3301 and PHYS 3404.   |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 3 | (3) |   | READ 4305 | Content Area Literacy                           |            |     | Admission to COE Teacher Education Program   |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 3 | (3) |   | PHYS 4392 | Research Methods                                |            |     | Grade C or better in the following: MATH 2413 (or MATH 2487) and   |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 3 | (3) |   | UTCH 3303 | Project-Based Instruction                       |            |     | (a) A university grade point average of at least 2.75, (b) UTCH 3302   |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
| <b>16 (16) Semester Total Hours</b>  |        |   |     |   |           |   |            |     |  |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
| FOURTH YEAR  | SPRING | 4 | (4) |   | CHEM 4401 | Chemistry Education                             |            |     | CHEM 1111, CHEM 1112, and CHEM 1312.   |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 1 | (1) |   | UTCH 4101 | Apprentice Teaching Seminar                     |            |     | (a) A university grade point average of at least 2.75, (b) UTCH 3303 with a grade of 'C' or better, (c) concurrent enrollment with UTCH 4601, (d) successful completion of PPR and content TExES examinations, and (e) acceptance of the third-stage UTeach portfolio. |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
|  |        | 6 | (6) |   | UTCH 4601 | Apprentice Teaching                             |            |     | (a) A university grade point average of at least 2.75, (b) UTCH 3303 with a grade of 'C' or better, (c) successful completion of PPR and content TExES examinations, and (d) acceptance of the third-stage UTeach portfolio.   |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |
| <b>11 (11) Semester Total Hours</b>  |        |   |     |   |           |   |            |     |  |  |  |  |   |   |   |          |              |            |     |              |                  |             |      |   |     |  |           |                |  |  |            |  |   |     |  |           |                   |  |  |                          |  |   |     |  |           |                       |  |  |  |  |   |     |  |           |                  |  |  |  |  |   |     |  |           |                           |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |             |        |   |     |  |           |                     |  |  |                                      |  |   |     |  |           |                             |  |  |  |  |   |     |  |           |                     |  |  |  |  |                                     |  |  |  |  |  |  |  |  |  |  |

**Progression Requirements**

Admission to the College of Education and P-16 Integration is required for participation in Apprentice Teaching and Seminar (UTCH 4601, 4101). Students unable to be admitted to UTCH 4601 and UTCH 4101 will be required to substitute 4 advanced hours, as recommended by advisor.

**Graduation Requirements**

In addition to the graduation requirements listed in the UTRGV 2017-2019 Undergraduate Catalog, demonstration of proficiency in a language other than English is required at the undergraduate level equivalent to a minimum of six credit hours. Proficiency can be demonstrated by a college credit exam, a placement test approved through the UTRGV department of Writing and Language Studies, and/or to six credit hours of college-level language coursework.

**123 TOTAL HOURS**  
**(51) TOTAL ADVANCED HOURS**

Approved:  
Revised: Monday, April 17, 2017