Table A: Pre-Baccalaureate Studies – Math and Physics Option (PBSCI-UND) AY 2023-2024  
*Calendar Type:* Semester

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Term: N/A** |  |  |  |  |  |  |
| **Course Number & Title** | **CR** | **GE** | **MAJ** | **OPEN** | **NEW** | **Prerequisite(s)** |
| NCAR-010 Freshman Seminar | 0 |  |  |  |  |  |
| Pre-baccalaureate Courses\* | 3-6 |  |  |  |  |  |
| Choose one of the following course sequences:  CHMG-141 General & Analytical Chemistry I  CHMG-142 General & Analytical Chemistry II  CHMG-145 General & Analytical Chemistry I Lab  CHMG-146 General & Analytical Chemistry II Lab  OR  PHYS-211 University Physics I\*\*  PHYS-212 University Physics II\*\* | 3  3  1  1  4  4 |  |  |  |  | CHMG-141: none  CHMG-142: CHMG-141 or CHMG-131 or equiv course  CHMG-145: coreq: CHMG-141 or CHMG-131 or equiv  CHMG-146: CHMG-131 or CHMG-141 or equiv course. co-req: CHMG-142 or equivalent course.  PHYS-211: C- or better in MATH-181 or equivalent course. Co-req: MATH-182 or equivalent course.  PHYS-212: (PHYS-211 or PHYS-211A or PHYS-206 or PHYS-216) or (MECE-102, MECE-103 and MECE-205) and (MATH-182 or MATH-172 or MATH-182A) or equivalent courses.  Grades of C- or better required in all pre-reqs. |
| Choose one of the following course sequences:  MATH-171 Calculus A^  MATH-172 Calculus B^  OR  MATH-181 Project-Based Calculus I^  MATH-182 Project-Based Calculus II^ | 3  3  4  4 |  |  |  |  | MATH-171: Completion of the math placement exam or C- or better in MATH-111 or C- or better in ((NMTH-260 or NMTH-272 or NMTH-275) and NMTH-220) or equiv.  MATH-172: C- or better in MATH-171 or equiv course.  MATH-181: MATH-111 or (NMTH-220 and NMTH-260 or NMTH-272 or NMTH-275) or equiv courses with min grade of B-, or score of at least 65% on RIT Mathematics Placement Exam. co-req: MATH-181R or equiv course.  MATH-182: C- or better in MATH-181 or equiv course |
| General Education Courses^^ | 9 | 9 |  |  |  |  |
| **Term Credit Total:** | 26-31 | 9 | 0 | 0 |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Total Credits (CR)** | **General Education (GE)** | **Major(MAJ)** | **Electives & Other**  **(OPEN)** |
| **Program Totals** | **26-31** | **9** | **0** | **0** |

***Notes:***

1. \*Pre-baccalaureate courses are available to strengthen students’ skills in critical thinking, learning strategies, and specific discipline areas.
2. ^Alternate mathematics courses may be required as prerequisites, depending on placement.
3. ^^Please see General Education Requirements for more information. Depending on placement, the writing sequence may begin with Critical Reading and Writing (UWRT-100) or FYW: Writing Seminar (UWRT-150).
4. \*\*If pursuing the physics option, students must choose the physics sequence.

**Change Log**

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| --- | --- |
| **Effective Term** | **Curriculum Modification(s)** |
| 2221 | 5/24/21 |
| 2211 | New addition to the table; 4/15/20fxk; 5/1/20fxk |
| Older | 6/10/19fxk |