Table A: Pre-Baccalaureate Studies – Engineering Option (PBENG-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 |  |  |  |  |  |
| General Education – Elective | 3 | 3 |  |  |  |  |
| Pre-baccalaureate Courses\* | 0-3 |  |  |  |  |  |
| Major Courses | 6 |  | 6 |  |  |  |
| PHYS-211 University Physics I | 4 |  |  |  |  | C- or better in MATH-181 or equivalent course. Co-req: MATH-182 or equivalent course. |
| PHYS-212 University Physics II | 4 |  |  |  |  | (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 are required in all prerequisite courses. |
| General Education Courses | 6 | 6 |  |  |  |  |
| MATH-181 Project-Based Calculus I\*\* | 4 |  |  |  |  | MATH-111 or (NMTH-220 and NMTH-260 or NMTH-272 or NMTH-275) or equivalent courses with a minimum grade of B-, or a score of at least 65% on the RIT Mathematics Placement Exam. co-req: MATH-181R or equivalent course. |
| MATH-182 Project-Based Calculus II\*\* | 4 |  |  |  |  | C- or better in MATH-181 or equivalent course |
| **Term Credit Total:** | 31-34 | 9 | 6 | 0 |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Total Credits (CR)** | **General Education (GE)** | **Major(MAJ)** | **Electives & Other**  **(OPEN)** |
| **Program Totals** | **31-34** | **9** | **6** | **0** |

***Notes:***

1. \*Pre-baccalaureate courses strengthen students’ skills in critical thinking, learning strategies, and specific discipline areas.
2. \*\*Alternative mathematics courses may be required as prerequisites, depending on placement. If pursuing the physics option, students must choose the physics sequence.

**Change Log**

|  |  |
| --- | --- |
| **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 |