

Bolded courses require minimum grade of C-
Applies to incoming freshmen - Fall 2022

| FIRST YEAR | | | |
|--|-----------|--|-----------|
| Fall Semester | | Spring Semester | |
| First Year Engr Clinic I (ENGR 01101) | 2 | First Year Engr Clinic II (ENGR 01102) | 2 |
| Chemistry I Lab/Lecture (CHEM 06100/CHEM L6100) | 4 | Calculus II (MATH 01131) | 4 |
| Calculus I (MATH 01130) | 4 | Intro. Mechanics Lecture/Lab (PHYS 00220/PHYS L0220) | 4 |
| Intro to Sci. Progr-Python (CS01104)* | 3 | Foundations Bio for Biomed Scienc II (MCB 01102) | 4 |
| BME First Year Seminar | 0 | College Comp I (COMP 01111) | 3 |
| <i>Rowan Core elective</i> | 3 | | |
| <i>*Students interested in Computer Science may elect to take Computer Science & Programming (CS 04103, 4cr)</i> | | | |
| | 16 | | 17 |
| SECOND YEAR | | | |
| Fall Semester | | Spring Semester | |
| Sophomore Engr Clinic 1 (ENGR 01201) | 4 | Sophomore Engr Clinic 2 (ENGR 01202) | 4 |
| Calculus III (MATH 01230) | 4 | Math for Engrg Analysis (MATH 01235) | 4 |
| Chemistry II Lecture/Lab (CHEM 06101/CHEM L6101) | 4 | Intro to Elec. & Magn Lecture/Lab (PHYS 00222/PHYS L0222) | 4 |
| Chemical Fdns. in BME (BME 11201) | 4 | Physio. Fdns in BME (BME 11301) | 4 |
| | 16 | | 16 |
| THIRD YEAR | | | |
| Fall Semester | | Spring Semester | |
| Junior Engr Clinic (ENGR 01303) | 2 | Junior Engr Clinic (ENGR 01303) | 2 |
| Mech. Fdns in BME (BME 11303) | 4 | CCF ¹ Course 1 (see CCF guidelines) | 3 |
| Elec. Fdns in BME (BME 11302) | 4 | CCF ¹ Course 2 (see CCF guidelines) | 3 |
| Physiology or Chemistry Elective** | 4 | Entrepr. & Innov (ENT 06240) | 3 |
| <i>**Organic Chem I (CHEM 07200) or Human Anatomy & Physiology I or II (BIOL 10210/BIOL 10212)</i> | | <i>Rowan Core elective</i> | 3 |
| | 14 | | 14 |
| FOURTH YEAR | | | |
| Fall Semester | | Spring Semester | |
| Senior Engr Clinic (ENGR 01403) | 2 | Senior Engr Clinic (ENGR 01403) | 2 |
| CCF ¹ Course 3 (see CCF guidelines) | 3 | CCF ¹ Course 5 (see CCF guidelines) | 3 |
| CCF ¹ Course 4 (see CCF guidelines) | 3 | Sim, Model & Cntrl-Biomed Sys (BME 11411) | 4 |
| Stats. for Biomed. Sciences (STAT 02284) | 3 | <i>Rowan Core elective</i> | 3 |
| Biomedical Ethics (PHIL 09341) | 3 | | |
| Biomedical Engineering Seminar (BME 11100) | 1 | | |
| | 15 | | 12 |
| ¹ CCF = Core Competency Focus course (see CCF guidelines); 15 credits required | | | |

University Requirements

The *Rowan Core* is the University's general education model. It is based on six literacies and *Rowan Experience* (see below), which reflect contemporary priorities while maintaining a strong liberal arts foundation.

Some literacies are incorporated in your major-specific courses. Others you will fulfill by taking elective courses in the required literacy.

Rowan Core-Literacies

- Artistic (ARTL) - student selects elective*
- Global (GLBL) - student selects elective*
- Humanistic (HUML) - student selects elective, recommended also LIT*
- Communicative (COML) - fulfilled by Comp I, SEC I and SEC II*
- Quantitative (QNTL) - fulfilled by Calculus I*
- Scientific (SCIL) - fulfilled by Chemistry I*

Rowan Experience

- Rowan Seminar (RS) - fulfilled by First Year Engr Clinic I*
- Writing Intensive (WI) - fulfilled by Senior Engr Clinic*
- Broad-based lit. (LIT) - student selects elective*