

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 (BME01100)	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*