

FIRST YEAR			
Fall Semester		Spring Semester	
First Year Engineering Clinic I (ENGR 01101)	2	First Year Engineering 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 Scientific Programming (CS01104)*	3	Foundations in Biology for Biomedical Sciences II (MCB 01102)	4
BME Freshman Seminar	0	College Comp I (COMP 01111)	3
Rowan Core elective	3		
*Students interested in Computer Science may elect to take Computer Science & Programming (CS 04103, 4cr)			
	16		17
SECOND YEAR			
Fall Semester		Spring Semester	
Sophomore Engineering Clinic 1 (ENGR 01201)	4	Sophomore Engineering Clinic 2 (ENGR 01202)	4
Calculus III (MATH 01230)	4	Math for Engineering Analysis (MATH 01235)	4
Chemistry II Lecture/Lab (CHEM 06101/CHEM L6101)	4	Intro to Electricity & Magn Lecture/Lab (PHYS 00222/PHYS L0222)	4
Chemical Foundations in BME (BME 11201)	4	Physiological Foundations in BME (BME 11301)	4
	16		16
THIRD YEAR			
Fall Semester		Spring Semester	
Junior Engineering Clinic (ENGR 01303)	2	Junior Engineering Clinic (ENGR 01303)	2
Mechanical Foundations in BME (BME 11303)	4	Upper-level BME Elective (CCF ¹ Course 1)	3
Electrical Foundations in BME (BME 11302)	4	Upper-level BME Elective (CCF ¹ Course 2)	3
Physiology or Chemistry Elective**	4	Statistics for Biomedical Sciences (STAT 02284)	3
**Organic Chem I (CHEM 07200) or Human Anatomy & Physiology I or II (BIOL 10210/BIOL 10212)		Rowan Core elective	3
	14		14
FOURTH YEAR			
Fall Semester		Spring Semester	
Senior Engineering Clinic (ENGR 01403)	2	Senior Engineering Clinic (ENGR 01403)	2
Upper-level BME Elective (CCF ¹ Course 3)	3	Upper-level BME Elective (CCF ¹ Course 5)	3
Upper-level BME Elective (CCF ¹ Course 4)	3	Modeling & Simulation for Analysis & Design in BME (BME 11411)	4
Entrepreneurship and Innovation (ENT 06240)	3	Rowan Core elective	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
- 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, typically fulfilled with a HUML course