Rowan University
Henry M. Rowan College of Engineering

Biomedical Engineering Curriculum Guide

F '18

*Courses in **bold** require minimum grade of C-*

Freshman Year		Sophomore Year		Junior Year		Senior Year	
Fall Semester	**16**	**Fall Semester**	**16**	**Fall Semester**	**17**	**Fall Semester**	**17**
Freshman Clinic 1 (ENGR 01.101)	2	Sophomore Clinic 1 (ENGR 01.201)	4	Junior Clinic (ENGR 01.303)	2	Senior Clinic (ENGR 01.403)	2
Chemistry I (CHEM 06100)	4	**Calculus III (MATH 01.230)**	4	**Mech. Fdns in BME (BME 11.303)**	4	**CCF Course 2 (see CCF guidelines)**	3
Calculus I (MATH 01.130)	4	Fdns in Bio for Biomed Sci I (MCB 01101)	4	**Elec. Fns in BME (BME 11.302)**	4	**CCF Course 3 (see CCF guidelines)**	3
Intro to Sci. Progr. (CS01.104)	3	**Intro to Electr & Magn (PHYS 02.222)**	**4**	**Physio. Fdns in BME (BME 11.301)**	4	**CCF Course 4 (see CCF guidelines)**	3
Rowan Core elective	3			*Rowan Core elective*	3	Entrepr. & Innov (ENT06.240)	3
						Sim, Model & Cntrl-Biomed Sys (BME 11.411)	2
						Biomedical Engineering Seminar (BME 11.100)	1
Spring Semester	**17**	**Spring Semester**	**16**	**Spring Semester**	**15**	**Spring Semester**	**17**
Freshman Clinic 2 (ENGR 01.102)	2	Sophomore Clinic 2 (ENGR 01.202)	4	Junior Clinic (ENGR 01.303)	2	Senior Clinic (ENGR 01.403)	2
Calculus II (MATH 01.131)	**4**	**Math for Engrg Analysis (MATH 01.235)**	**4**	**CCF Course 1 (see CCF guidelines)**	3	**CCF Course 5 (see CCF guidelines)**	3
Introductory Mechanics (PHYS 00220)	**4**	**Fdns in Bio for Biomed Sci II (MCB 01102)**	4	Stats. for Biom. Sciences (STAT 02284)	3	**CCF Course 6 (see CCF guidelines)**	3
Chemistry II (CHEM 06101)	4	**Chemical Fdns. in BME (BME 11.201)**	4	Princ. Biomed. Sys. & Dev. (ECE 09404)	3	BioTech/ Science Elective	3
College Comp I (COMP 01111)	3			Advanced Science Elective *	4	Biomedical Ethics (PHIL 09341)	3
				Organic Chem I or Human Anatomy & Physiology **I or II*		*Rowan Core elective*	3
						Total Credits	**131**

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	**Fulfilled by:**
Artistic (ARTL)	*elective*
Global (GLBL)	*elective*
Humanistic (HUML)	*elective*
Communicative (COML)	Comp I, SEC I and II
Quantitative (QNTL)	Calculus I
Scientific (SCIL)	Chemistry I

Rowan Experience	**Fulfilled by:**
Rowan Seminar (RS)	Freshman Engineering Clinic I
Writing Intenstive (WI)	Senior Engineering Clinic
Broad-based lit. (LIT)	*Literature-designated elective*