

ROWAN UNIVERSITY - DEPARTMENT OF BIOMEDICAL ENGINEERING
BS in Biomedical Engineering – 120 credits

First Year							
Semester 1				Semester 2			
Course	S.H.	Grade	Sem/Year	Course	S.H.	Grade	Sem/Year
First Year Engineering Clinic I ENGR 01101	2			First Year Engineering Clinic II ENGR 01102	2		
Chemistry I Lab and Lecture CHEM 06100 and CHEM L6100	4			Calculus II MATH 01131	4		
Calculus I MATH 01130	4			Introd. Mechanics Lab and Lecture PHYS 00220 and PHYS L0220	4		
Intro to Sci. Programm. CS01104	3			Foundations in Bio for Biomed Sci II MCB 01102	4		
BME Freshman Seminar BME 01100	0			College Composition I COMP 01111	3		
<i>Rowan Core Elective</i>	3						
Semester Total	16			Semester Total	17		
Second Year							
Semester 1				Semester 2			
Course	S.H.	Grade	Sem/Year	Course	S.H.	Grade	Sem/Year
Sophomore Engineering Clinic 1 ENGR 01201	4			Sophomore Engineering Clinic 2 ENGR 01202	4		
Calculus III MATH 01230	4			Math for Engr Analysis MATH 01235	4		
Chemistry II Lab and Lecture CHEM 06101 and CHEM L6101	4			Intro to Elec and Magnet Lab and Lecture PHYS 00222 and PHYS L0222	4		
Chemical Foundations in BME BME 11201	4			Physiological Foundations in BME BME 11301	4		
Semester Total	16			Semester Total	16		
Third Year							
Semester 1				Semester 2			
Course	S.H.	Grade	Sem/Year	Course	S.H.	Grade	Sem/Year
Junior Engineering Clinic ENGR 01303	2			Junior Engineering Clinic ENGR 01303	2		
Mechanical Foundations in BME BME 11303	4			CCF Course 1 BME 114xx	3		
Electrical Foundations in BME BME 11302	4			CCF Course 2 BME 114xx	3		
Physiology or Chemistry Elective	4			Statistics for Biomedical Sciences STAT 02284	3		
				<i>Rowan Core Elective</i>	3		
Semester Total	14			Semester Total	14		
Fourth Year							
Semester 1				Semester 2			
Course	S.H.	Grade	Sem/Year	Course	S.H.	Grade	Sem/Year
Senior Engineering Clinic ENGR 01403	2			Senior Engineering Clinic ENGR 01403	2		
CCF Course 3 BME 114xx	3			CCF Course 5 BME 114xx	3		
CCF Course 4 BME 114xx	3			Modeling and Simulation for Analysis and Design in BME BME 11411	4		
Entrepreneurship and Innovation ENT 06240	3			<i>Rowan Core Elective</i>	3		
Biomedical Ethics PHIL 09341	3						
Biomedical Engineering Seminar BME 11100	1						
Semester Total	15			Semester Total	12		