



**UNIVERSITY OF THE DISTRICT OF COLUMBIA**  
**SCHOOL OF ENGINEERING AND APPLIED SCIENCES**  
 Department of Mechanical Engineering  
**BACHELOR OF SCIENCE IN BIOMEDICAL ENGINEERING**  
 Effective Fall 2018

Student \_\_\_\_\_ Student ID # \_\_\_\_\_

<b>First Semester</b>				<b>Second semester</b>			
Course #	Course Name	Credits	Grade	Course #	Course Name	Credits	Grade
IGED-110	Found Writ Arts & Hum	3		IGED-111	Found Writ Soc. & Nat Sc.	3	
IGED-130	Found Oral Comm.	3		IGED-140	Found Ethics & Values	3	
CHEM-111	General Chemistry I Lec	3		MATH-152	Calculus II Lec	3	
CHEM-113	General Chemistry I Lab	1		MATH-156	Calculus II Lab	1	
MATH-151	Calculus I Lec	3		PHYS-201	University Physics I Lec	3	
MATH-155	Calculus I Lab	1		PHYS-205	University Physics I Lab	1	
CCEN-101	Intro to Engineering	2		MECH-107	ME Computer Graphics	3	
<b>Total</b>		<b>16</b>		<b>Total</b>		<b>17</b>	
<b>Third semester</b>				<b>Fourth semester</b>			
Course #	Course Name	Credits	Grade	Course #	Course Name	Credits	Grade
PHYS-202	University Physics II Lec	3		MATH-254	Differential Eq. (or 260)	3	
PHYS-206	University Physics II Lab	1		CVEN-202	Engineering Mechanics II	3	
CVEN-201	Engineering Mechanics I	3		BIOL-101	Biological Science Lec	3	
MECH-205	Materials Science	3		BIOL-103	Biological Science Lab	1	
CSCI-135	Scientific Prog (Lec & Lab)	3		MECH-208	Thermodynamics	3	
ELEC-225	Electric Circuits I Lec	3		MECH -222	Engr. Measurements Lec	3	
ELEC-226	Electric Circuits I Lab	1		MECH -224	Engr. Measurements Lab	1	
<b>Total</b>		<b>17</b>		<b>Total</b>		<b>17</b>	
<b>Fifth semester</b>				<b>Sixth semester</b>			
Course #	Course Name	Credits	Grade	Course #	Course Name	Credits	Grade
IGED-210	Discov Expos Writing	3		MATH-153	Calculus III Lec	3	
CVEN-308	Appl. Num Analysis	3		MATH-157	Calculus III Lab	1	
MECH-381	Microcontrollers in ME	3		MECH-351	Heat Transfer Lec	3	
MECH-321	Fluid Mechanics Lec	3		BMEG-302	Biomedical Seminar	3	
BMEG-301	Bioinstrumentation	3		MECH-371	Design of Control Sys Lec	3	
BIOL-111	Human Anatomy and Physiology Lec	3		MECH-373	Design of Control Sys Lab	1	
<b>Total</b>		<b>18</b>		<b>Total</b>		<b>14</b>	
<b>Seventh Semester</b>				<b>Eighth semester</b>			
Course #	Course Name	Credits	Grade	Course #	Course Name	Credits	Grade
IGED-280	Discov Civ/Ser/Team	3		BMEG-492	Capstone Sr. Design Pr. II	3	
MECH-406	Engineering Economics	3		BMEG-xxx	BMEG Technical Elective	3	
MATH-381	Probability & Statistics	3		BMEG-xxx	BMEG Technical Elective	3	
BMEG-491	Capstone Sr. Design Proj I	3		IGED-270	Discov Loc/Glob Cul	3	
BMEG-xxx	BMEG Technical Elective	3		<b>Total</b>		<b>12</b>	
<b>Total</b>		<b>15</b>		<b>Total</b>		<b>12</b>	
<b>GRAND TOTAL CREDITS</b>						<b>126</b>	

Advisor \_\_\_\_\_

Department Chair \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

## BIOMEDICAL ENGINEERING COURSE Prerequisite List

Course No	Course Name	Co-Req	Pre-Requisite
CCEN-101	<i>Introduction to Engineering</i>	-	-
MECH-105	<i>Computer Aided Graphics Lec &amp; Lab</i>	-	-
CVEN-201	<i>Engineering Mechanics-I</i>	-	PHYS-201
CVEN-202	<i>Engineering Mechanics-II</i>	-	CVEN-201
BIOL-101	<i>Biological Science Lec</i>	BIOL 103	-
BIOL-103	<i>Biological Science Lab</i>	BIOL 101	-
MECH-205	<i>Material Science</i>	-	CHEM-111
MECH-208	<i>Thermodynamics</i>	-	PHYS-201
ELEC-225	<i>Electrical Circuits I</i>	ELEC-226	PHYS-201
MECH-222	<i>Eng. Measurements Lec</i>	MECH-224	ELEC-221
MECH-224	<i>Eng. Measurements Lab</i>	MECH-222	-
MECH-381	<i>Microcontrollers in ME</i>	-	ELEC-225, jr standing
BMEG-301	<i>Bioinstrumentation</i>	-	ELEC- 225
BIOL-111	<i>Human Anatomy and Physiology Lec</i>	BIOL 113	
MECH-321	<i>Fluid Mechanics Lec</i>	MECH-322	MATH-254 or 260 MECH-208
CVEN-308	<i>Applied Numerical Analysis for Engineers</i>	-	MATH-254 or 260
MECH-351	<i>Heat Transfer Lec</i>	-	MECH-321 MATH-254 or 260
BMEG-302	<i>Biomedical Seminar</i>	-	Sophomore standing or higher
MECH-371	<i>Design of Control Sys Lec</i>	MECH-373	MATH-254 or 260
MECH-373	<i>Design of Control Sys Lab</i>	MECH-371	-
MECH-406	<i>Engineering Economics</i>	-	Senior Standing
BMEG-491/492	<i>BME Capstone Sr. Design Proj I/II</i>	-	Senior Standing
BMEG-404	<i>Analysis of Physiological Systems</i>	-	MATH 254, CVEN 308