

# ENGINEERING BACHELOR OF SCIENCE WITH A CONCENTRATION IN BIOMEDICAL ENGINEERING

Course	Title	Credits
<b>Freshman Year</b>		
<b>Fall Semester</b>		
ENGR1100	INTRODUCTION TO ENGINEERING EXPERIENCE	2
ENGR1202	ENGINEERING LABORATORY-BBME	2
MATH1776 & MATH1777	CALCULUS 1A and CALCULUS 1B	4
PHYS1250	ENGINEERING PHYSICS I	4
English Sequence*		4
<b>Credits</b>		<b>16</b>
<b>Spring Semester</b>		
ENGR1300	FIRST-YEAR ENGINEERING DESIGN	2
ENGR1402	APPLIED ENGINEERING ANALYSIS-BBME	2
MATH1876 & MATH1877	CALCULUS 2A and CALCULUS 2B	4
BIOL1100	CELL & MOLECULAR BIOLOGY	4
English Sequence*		4
<b>Credits</b>		<b>16</b>
<b>Sophomore Year</b>		
<b>Fall Semester</b>		
BIOL1700	ANATOMY & PHYSIOLOGY I	4
ELEC2299	ELECTRICAL CIRCUIT ANALYSIS & DESIGN	4
MATH2025	MULTIVARIABLE CALCULUS	4
PHYS1750	ENGINEERING PHYSICS II	4
<b>Credits</b>		<b>16</b>
<b>Spring Semester</b>		
BIOL1750	ANATOMY & PHYSIOLOGY II	4
BMED2500	BIOMEDICAL ELECTRONICS & INSTRUMENTATION	4
CHEM1100	GENERAL CHEMISTRY I	4
ELEC2699	INTEGRATED ELECTRONICS	3
<b>Credits</b>		<b>15</b>
<b>Junior Year</b>		
<b>Fall Semester</b>		
COMP1000	COMPUTER SCIENCE I	4
MATH2750	DIFFERENTIAL EQUATIONS & SYSTEMS MODELING	4
Management Elective (MGMT) 1		3
HSS Elective*		4
<b>Credits</b>		<b>15</b>
<b>Spring Semester</b>		
COOP3500	COOP EDUCATION 1	
<b>Credits</b>		<b>0</b>

Course	Title	Credits
<b>Summer Semester</b>		
ENGR3500	ENGINEERING JUNIOR DESIGN	4
MECH3599	ENGINEERING MECHANICS	4
Management Elective (MGMT) 2		3
HSS Elective*		4
Elective 1		4
<b>Credits</b>		<b>19</b>
<b>Senior Year</b>		
<b>Fall Semester</b>		
COOP4500	COOP EDUCATION 2	
<b>Credits</b>		<b>0</b>
<b>Spring Semester</b>		
BMED4200	BIOMATERIALS & TISSUE ENGINEERING	3
BMED4400	BIOMECHANICS	4
BMED5000	BIOMEDICAL ENGINEERING SENIOR DESIGN I	3
Elective 2		4
<b>Credits</b>		<b>14</b>
<b>Summer Semester</b>		
BMED4300	SIGNALS AND SYSTEMS FOR BIOMEDICAL ENGINEERING	3
BMED4600	BIOSTATISTICS	4
BMED5500	BIOMEDICAL ENGINEERING SENIOR DESIGN II	3
HSS Elective*		4
<b>Credits</b>		<b>14</b>
<b>Total Credits</b>		<b>125</b>

Math Placement (<https://catalog.wit.edu/academic-policies-procedures/ug/math-placement/>) may alter the course schedule above.