

## BSEN (Biomedical Concentration) 2018-2019

Ye	Fall 2018					Spring 2019					Summer 2019				
	Course		R	L	C	Course		R	L	C	Course		R	L	C
<b>Freshman</b>	MATH1750	Engineering Calculus I	4	0	4	MATH1850	Engineering Calc II <i>Prereq: MATH 1750</i>	4	0	4	<b>Optional Co-op Work Term COOP3000</b> <i>Prereq: Successful completion of freshman and sophomore program requirements; 2.0 or higher Cumulative GPA</i>				
	PHYS1250	Engineering Physics I	3	2	4	Math/Sci	BIOL1100-Cell & Molec. Bio	3	2	4					
	ENGL1100	English I <i>Prereq: English Placement Test</i>	4	0	4	ENGL2200	English II <i>Prereq: English I</i>	4	0	4					
	ENGR1000	Intro to Engr. <i>Prereq: Enrollment in BSEN</i>	1	4	3	ENGR1500	Intro Engr. Design <i>Prereq: MATH1750, ENGL1100</i>	1	4	3					
	ENGR1600	Fundamentals of CAD and CAM	0	2	1	ENGR1600	Fundamentals of CAD and CAM	0	2	1					
	ENGR1800	Introduction to MATLAB				ENGR1800	Introduction to MATLAB								
	FYS	First Year Seminar			0										
	Total:					Total:									
	16					16									
Ye	Fall 2019					Spring 2020					Summer 2020				
	Course		R	L	C	Course		R	L	C	Course		R	L	C
<b>Sophomore</b>	MATH2025	Multivariable Calculus <i>Prereq: MATH 1850</i>	4	0	4	MC	BIOL1750-Anat. & Phys. II <i>Prereq: BIOL 1700</i>	3	2	4	<b>Optional Co-op Work Term COOP3000</b> <i>Prereq: Successful completion of freshman and sophomore program requirements; 2.0 or higher Cumulative GPA</i>				
	MC	BIOL1700-Anat. & Phys. I <i>Prereq: BIOL 1100</i>	3	2	4	EC	BMED2500-BMED Elec. & Inst. <i>Coreq: ELEC 2699, BIOL 1750</i>	3	2	4					
	EC	ELEC2299-Elec. Circuit Analysis & Design	3	2	4	EC	ELEC2699-Integrated Electronics <i>Prereq: ELEC 2299</i>	2	2	3					
	PHYS1750	Engr. Phys. II <i>Prereq: PHYS 1250, MATH 1850</i>	3	2	4	Math/Sci	Engineering Chemistry I	3	2	4					
						HUSS	HUSS <i>Prereq: ENGL 1100, 2200</i>	4	0	4					
	Total:					Total:									
	16					19									
Ye	Fall 2020					Spring 2021					Summer 2021				
	Course		R	L	C	Course		R	L	C	Course		R	L	C
<b>Junior</b>	MATH2750	MATH2750-Diff. Eq & Sys. Modelling <i>Prereq: MATH 1850</i>	4	0	4	<b>Co-op Work Term I COOP3500</b> <i>Prereq: Junior status; 2.0 or higher Cumulative GPA</i>					ENGR3500	Engineering Junior Design <i>Prereq: Junior status</i>	1	6	4
	MGMT	Management	3	0	3						HUSS	HUSS <i>Prereq: ENGL 1100, 2200</i>	4	0	4
	HUSS	HUSS <i>Prereq: ENGL 1100, 2200</i>	4	0	4						MC	MECH3599-Engr. Mech. <i>Prereq: Math 2025, PHYS 1750</i>			4
	COMP	COMP1000-CompSci I <i>Prereq: MATH 1850</i>	-	-	4						MGMT	Management	3	0	3
											EC	BMED Elective I	-	-	4
	Total:					Total:					Total:				
	15					19					19				
Ye	Fall 2021					Spring 2022					Summer 2022				
	Course		R	L	C	Course		R	L	C	Course		R	L	C
<b>Senior</b>	<b>Co-op Work Term II COOP4500</b> <i>Prereq: Senior status; 2.0 or higher Cumulative GPA</i>					BMED5000	BMED SD I <i>Prereq: Senior Status</i>	1	4	3	BMED550	BMED Senior Design II <i>Prereq: BMED5000</i>	1	6	4
						HUSS	HUSS <i>Prereq: ENGL 1100, 2200</i>	4	0	4	HUSS	HUSS <i>Prereq: ENGL 1100, 2200</i>	4	0	4
						EC	BMED Elective II	-	-	4	EC	BMED4600-Biostatistics <i>Prereq: MATH1850, BIOL1100</i>	3	2	4
						EC	BMED4200-Biomaterials/Tissue Engr. <i>Prereq: BIOL1750, CHEM2000, Coreq: BMED4400</i>	3	2	4	EC	BMED4300-Sig. & Sys. for BMED Engineering <i>Prereq: MATH2025, COMP1000, ELEC2299, BIOL1750</i>	4	0	4
						EC	BMED4400-Biomechanics <i>Prereq: MECH 3599, MATH 2750</i>	3	2	4					
	Total:					Total:					Total:				
	19					19					16				
<b>Total: 136</b>															

EC=Engineering Course

MC=Minor Course

MGMT=Management

HU/SS=Humanities/Social Science