

## BSEN (Computer Concentration) 2018-2019

Year	Fall 2018				Spring 2019				Summer 2019						
<b>Freshman</b>	Course		R	L	C	Course		R	L	C	<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>				
	MATH1750	Engineering Calculus I	4	0	4	MATH1850	Engineering Calc. II <i>Prereq: MATH 1750</i>	4	0	4					
	PHYS1250	Engr. Phys. I <i>Prereq: MATH 1750</i>	3	2	4	PHYS1750	Engr. Phys. II <i>Prereq: PHYS 1250</i>	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 Engineering <i>Prereq: Enrollment in BSEN</i>	1	4	3	ENGR1500	Intro Engr. Design <i>MATH 1750, ENGL 1100</i>	1	4	3					
	ENGR1600	Fundamentals of CAD and CAM OR	0	2	1	ENGR1800	Introduction to MATLAB OR	0	2	1					
	ENGR1800	Introduction to MATLAB				ENGR1600	Fundamentals of CAD and CAM								
	FYS	First Year Seminar			0										
Total:				16				Total:				16			
Year	Fall 2019				Spring 2020				Summer 2020						
<b>Sophomore</b>	Course		R	L	C	Course		R	L	C	<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>				
	MATH2500	Differential Equations <i>Prereq: MATH 1850</i>	4	0	4	MATH2025	Multivar. Calc. <i>Prereq: MATH 1850</i>	4	0	4					
	Math/Science	Math or Science			4	HUSS	HUSS <i>Prereq: ENGL 1100, 2200</i>	4	0	4					
	MC	Minor Course			3	MC	Minor Course			3					
	EC	ELEC2250-Network Theory I <i>Prereq: MATH1850, Coreq: MATH2500</i>	3	2	4	EC	ELEC2750-Network Theory II <i>Prereq: ELEC2250, Prereq: MATH2500</i>	3	2	4					
	EC	ELEC2275-Digital Logic <i>Prereq: ELEC2250</i>	3	2	4										
Total:				19				Total:				15			
Year	Fall 2020				Spring 2021				Summer 2021						
<b>Junior</b>	Course		R	L	C	Course		R	L	C	Course		R	L	C
	EC	ELEC3150-Object Oriented Programming <i>Prereq: ENGR1800</i>	3	2	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>	2	4	4	
	EC	ELEC3250-Analog Circuit Design <i>Prereq: ELEC2750</i>	3	2	4	HUSS	HUSS <i>Prereq: ENGL 1100, 2200</i>	4	0	4	MGMT	Management	3	0	3
	HUSS	HUSS <i>Prereq: ENGL 1100, 2200</i>	4	0	4	COMP	Computer Science			4					
	MC	Minor Course			3										
	MGMT	Management	3	0	3										
	Total:				18				Total:				15		
Year	Fall 2021				Spring 2022				Summer 2022						
<b>Senior</b>	Course		R	L	C	Course		R	L	C	Course		R	L	C
	<b>Co-op Work Term II COOP4500</b>				ENGR5000	Engr. SD I <i>Prereq: Senior Status</i>	1	6	4	ENGR5500	Engr. SD II <i>Prereq: SD I</i>	1	6	4	
	<b>Co-op Work Term II COOP4500</b>				HUSS	HUSS <i>Prereq: ENGL 1100, 2200</i>	4	0	4	Math/Science	Math or Science			4	
	<b>Co-op Work Term II COOP4500</b>				EC	ELEC2850-Microncontrollers Using C <i>Prereq: ELEC2275</i>	3	2	4	HUSS	HUSS <i>Prereq: ENGL 1100, 2200</i>	4	0	4	
	<b>Co-op Work Term II COOP4500</b>				ELECTIVE	ELEC Elective			4	MC	Minor Course			3	
	<b>Co-op Work Term II COOP4500</b>				EC	COMP3499-Operating Systems for Engineers <i>Prereq: COMP1099</i>	3	2	4	EC	ELEC3725-Computer Architecture <i>Prereq: ELEC2275</i>	3	0	3	
Total:				20				Total:				18			
<b>Total: 137</b>															

EC=Engineering Course

MC=Minor Course

MGMT=Management

HU/SS=Humanities/Social Science

REV: 5/4/18