

## BSEN (Civil 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 Calculus II <i>Prereq: MATH1750</i>	4	0	4					
	PHYS1250	Engineering Physics I	3	2	4	PHYS1750	Engineering Physics II <i>Prereq: PHYS1250</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 Engr. <i>Prereq: Enrollment in BSEN</i>	1	4	3	ENGR1500	Intro to Engr. Design <i>Prereq: MATH1750, ENGL1100</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>				
	MATH2025	Multivariable Calculus <i>Prereq: MATH1850</i>	4	0	4	MATH2500	Differential Equations <i>Prereq: MATH1850</i>	4	0	4					
	Math/Science	CHEM1100-Engr Chemistry I	3	2	4	COMP	Computer Science	4	0	4					
	MC	Minor Course	-	-	3	EC	CIVE2300-CAD in Civil Engineering	1	4	3					
	EC	CIVE2000-Statics & Mechanics of Materials I <i>Prereq: MATH1850, PHYS1250</i>	3	0	3	EC	CIVE2400-Civil Engr Materials <i>Prereq: PHYS1250, CHEM1100</i>	3	0	3					
	EC	CIVE2200-Intro to Geomatics <i>MATH1850</i>	2	4	4	EC	CIVE2500-Statics & Mechanics of Materials II <i>Prereq: CIVE2000</i>	3	2	4					
Total:					18	Total:					18				
Year	Fall 2020					Spring 2021					Summer 2021				
<b>Junior</b>	Course		R	L	C	<b>Co-op Work Term I COOP3500</b> <i>Prereq: Junior status; 2.0 or higher Cumulative GPA</i>					Course		R	L	C
	EC	CIVE3300-Soil Mechanics <i>Prereq: CIVE2000, CIVE2500</i>	3	2	4						ENGR3500	Engineering Junior Design <i>Prereq: Junior Status</i>	1	6	4
	EC	CIVE3000-Fluid Mechanics <i>Prereq: CIVE2000, MATH1850</i>	3	2	4						HUSS	HUSS <i>Prereq: ENGL1100, ENGL2200</i>	4	0	4
	HUSS	HUSS <i>Prereq: ENGL1100, ENGL2200</i>	4	0	4						MGMT	Management	3	0	3
	MC	Minor Course	-	-	3						EC	CIVE3900-Hydraulic Engr. <i>Prereq: CIVE3000</i>	2	4	4
	MGMT	Management	3	0	3						Total:				
Total:					18						Total:				
Year	Fall 2021					Spring 2022					Summer 2022				
<b>Senior</b>	<b>Co-op Work Term II COOP4500</b> <i>Prereq: Senior status; 2.0 or higher Cumulative GPA</i>					Course		R	L	C	Course		R	L	C
						CIVE4000	Civil Design Project <i>Prereq: Senior Status</i>	1	6	4	CIVE5500	Civil Capstone Design <i>Prereq: CIVE4000</i>	1	6	4
						HUSS	HUSS <i>Prereq: ENGL1100, ENGL2200</i>	4	0	4	Science	Biology or Geology	-	-	4
						HUSS	HUSS <i>Prereq: ENGL1100, ENGL2200</i>	4	0	4	HUSS	HUSS <i>Prereq: ENGL1100, ENGL2200</i>	4	0	4
						MC	Minor Course	-	-	3	EC	CIVE Elective	-	-	4
						MC	Minor Course	-	-	3	Total:				
Total:						18	Total:					16			
<b>Total: 135</b>															

EC=Engineering Course

MC=Minor Course

MGMT=Management

HUSS=Humanities/Social Science