

## BSEN (Mechanical Concentration) 2018-2019

Year	Fall 2018					Spring 2019					Summer 2019										
	Course		R	L	C	Course		R	L	C											
<b>Freshman</b>	MATH1750	Engineering Calculus I	4	0	4	MATH1850	Engineering Calculus II: Prereq: MATH 1750	4	0	4											
	PHYS1250	Engineering Physics I	3	2	4	PHYS1750	Engr. Phys. II Prereq: PHYS 1250, MATH 1850	3	2	4											
	ENGL1100	English I Prereq: English Placement Test	4	0	4	ENGL2200	English II Prereq: English I	4	0	4											
	ENGR1000	Intro to Engineering Prereq: Enrollment in BSEN	1	4	3	ENGR1500	Intro to Engr. Design Prereq: MATH 1750, ENGL 1100	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																			
Total:					16	Total:					16										
Year	Fall 2019					Spring 2020					Summer 2020										
	Course		R	L	C	Course		R	L	C											
<b>Sophomore</b>	MATH2025	Multivariable Calculus Prereq: MATH 1850	4	0	4	MATH2500	Differential Equations Prereq: MATH 1850	4	0	4	<b>Optional Co-op Work Term COOP3000</b> Prereq: Successful completion of freshman and sophomore program requirements; 2.0 or higher Cumulative GPA										
	Math/Science	Math or Science			4	HUSS	HUSS Prereq: ENGL 1100, 2200	4	0	4											
	MC	Minor Course			3	MC	MECH2300-Graphics Prereq: ENGR1600	1	4	3											
	COMP	Computer Science			4	EC	MECH2000- Statics Prereq: MATH 1850, PHYS 1250	4	0	4											
	EC	MECH2250- Thermodynamics Prereq: MATH 1850, PHYS 1750	3	2	4	EC	MECH3100- Fluids Prereq: MATH 2025, MECH 2250	3	2	4											
	Total:					19	Total:									19					
Year	Fall 2020					Spring 2021					Summer 2021										
	Course		R	L	C	Course		R	L	C	Course		R	L	C						
<b>Junior</b>	EC	MECH2500-Mech of Mats Prereq: MECH 2000	3	2	4	<b>Co-op Work Term I COOP3500</b> Prereq: Junior Status, 2.0 or higher cumulative GPA					ENGR3500	Engineering Junior Design Prereq: Junior Status	2	4	4						
	EC	MECH3900-Heat Transfer Prereq: MECH 2250, MECH 3100, MATH 2500	4	0	4						HUSS	HUSS Prereq: ENGL 1100, 2200	4	0	4						
	HUSS	HUSS Prereq: ENGL 1100, 2200	4	0	4						MGMT	Management	3	0	3						
	MC	Minor Course			3						EC	MECH3850-Engr. Dynamics Prereq: MECH 2000, MATH 2500	4	0	4						
	MGMT	Management	3	0	3											Total:					15
	Total:										18										
Year	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>					MECH 5000	Mechanical Capstone Analysis	1	4	3	MECH 5500	Mech Capstone Project Prereq: MECH 5000	1	6	4						
						HUSS	HUSS Prereq: ENGL 1100, 2200	4	0	4	Math/Science	Math or Science			4						
						MC	Minor Course			3	HUSS	HUSS Prereq: ENGL 1100, 2200	4	0	4						
						EC	MECH3600-Mat. Sci. Prereq: MECH 2500	3	2	4	EC	MECH Elective			4						
						EC	MECH Elective			4						Total:					16
						Total:					18										

EC=Engineering Course

MC=Minor Course

MGMT=Management

HU/SS=Humanities/Social Science

**Total: 137**