

BSEN (Manufacturing Concentration) 2018-2019

Year	Fall 2018					Spring 2019					Summer 2019										
	Course		R	L	C	Course		R	L	C											
Freshman	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			0																
Total:					16						Total:					16					
Year	Fall 2019					Spring 2020					Summer 2020										
	Course		R	L	C	Course		R	L	C											
Sophomore	MATH2025	Multivariable Calculus Prereq: MATH 1850	4	0	4	MATH2500	Differential Equations Prereq: MATH 1850	4	0	4	Optional Co-op Work Term COOP3000 Prereq: Successful completion of freshman and sophomore program requirements; 2.0 or higher Cumulative GPA										
	Math/Sci	Math or Science	-	-	4	HUSS	HUSS Prereq: ENGL 1100, 2200	4	0	4											
	MC	Directed Studies	-	-	3	MC	Directed Studies	-	-	3											
	COMP	Computer Science	-	-	4	EC	MECH2300-Graphics Prereq: ENGR1600	2	4	3											
	EC	MECH 2000- Statics Prereq: MATH 1850, PHYS 1250	3	0	4	EC	MECH2500-Mech of Mats Prereq: MECH 2000	3	2	4											
	Total:					19										Total:					18
Year	Fall 2020					Spring 2021					Summer 2021										
	Course		R	L	C	Course		R	L	C	Course		R	L	C						
Junior	EC	MECH3000-Design of Machine Elements Prereq: MECH 2500	4	0	4	Co-op Work Term I COOP3500 Prereq: Junior status; 2.0 or higher Cumulative GPA					ENGR3500	Engineering Junior Design Prereq: Junior Status	1	6	4						
	EC	MANF1000-Manufacturing Processes	2	4	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	Directed Studies	-	-	3						EC	MANF2000-Comp Aided MANF Prereq: MANF1000	2	2	3						
	MGMT	Management	3	0	3											Total:					14
	Total:										18										
Year	Fall 2021					Spring 2022					Summer 2022										
	Course		R	L	C	Course		R	L	C	Course		R	L	C						
Senior	Co-op Work Term II COOP4500 Prereq: Senior status; 2.0 or higher Cumulative GPA					MECH 5000	Mech Capstone Analysis Prereq: Senior Status	1	6	3	MECH5500	Mech Capstone Project Prereq: MECH5000	1	6	4						
						HUSS	HUSS Prereq: ENGL 1100, 2200	4	0	4	Math/Sci	Math or Science	-	-	4						
						MC	Directed Studies	-	-	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	MANF3000-Manufacturing Engineering Prereq: MANF2000	2	2	3						Total:					16
						Total:					17										
Total: 134																					

EC=Engineering Course

MC=Minor Course

MGMT=Management

HU/SS=Humanities/Social Science