

Bachelor of Science in Electromechanical Engineering (BELM)

2018/19

Year	Fall 2018				Spring 2019				Summer 2019		
	Course	R	L	C	Course	R	L	C			
Freshman	ENGL1100	English I PR: English Placement Test	4	0	4	ENGL2200	English II PR: English I	4	0	4	
	MATH1750	Engineering Calculus I PR: Engineering major	4	0	4	MATH1850	Engineering Calculus II PR: MATH1750	4	0	4	
	PHYS1250	Engineering Physics I CR: MATH1750	3	2	4	PHYS1750	Engineering Physics II PR: MATH1750, PHYS1250, CR: MATH1850	3	2	4	
	ENGR1000	Intro to Engineering PR: Enrollment in BELM	1	4	3	ENGR1500	Intro to Engr Design PR: MATH1750, ENGL1100	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	HUSS	HUSS PR: ENGL1100, 2200	4	0	4	CHEM1100	Engineering Chemistry	3	2	4	Optional Co-op Work Term COOP3000
	MATH2500	Differential Equations PR: MATH1850	4	0	4	MATH2025	Multivariable Calculus PR: MATH1850	4	0	4	
	ELECTIVE	General Elective	-	-	3	ELEC2750	Network Theory II PR: ELEC2250, MATH1850	3	2	4	
	ELEC2250	Network Theory I PR: MATH1850, CR: MATH2500	3	2	4	MECH2300	Engineering Graphics PR: ENGR1600	1	4	3	
	ELEC2275	Digital Logic CR: ELEC2250	3	2	4	MECH2000	Engr Statics PR: MATH1850, PHYS1250	4	0	4	
	Total:				19	Total:				19	
Year	Fall 2020				Spring 2021				Summer 2021		
	Course	R	L	C	Course	R	L	C			
Junior	ELEC2850	Microcontrollers Using C PR: ELEC2275, ELEC3250	3	2	4	MATH2100	Prob and Stats for Engineers PR: MATH1850	4	0	4	Co-op Work Term I COOP3500
	MATH2860	Linear Algebra and Matrix Theory MATH2025	4	0	4	ELEC3150	Obj Oriented Prog for Engineers PR: ENGR1800, ELEC3000	3	2	4	
	ELEC3250	Analog Circuit Dsgn PR: Jr status, MATH1850, ELEC2750	3	2	4	MECH3100	Engr Fluids PR: MATH2025, MECH2250	3	2	4	
	MECH2500	Mechanics of Materials PR: MECH2000	3	2	4	MECH3600	Materials Science PR: Jr. status, MECH2500	3	2	4	
	MECH2250	Engineering Thermodynamics PR: MATH1850, PHYS1750	3	2	4	ELMC3000	Electromech Dsgn / EPIC Course PR: Jr Status, ENGR1500, MECH2500, ELEC2200, ELEC3250	1	4	3	
	Total:				20	Total:				19	
Year	Fall 2021				Spring 2022				Summer 2022		
	Course	R	L	C	Course	R	L	C			
Senior	ELEC3920	Engr Signals and Systems PR: MATH2500, ELEC2750	3	2	4	ELEC4475	Feedback and Control PR: ELEC4050, MATH2500	3	2	4	Co-op Work Term II COOP4500
	ELEC4050	Motors and Controls PR: ELEC3250, MATH2025	3	2	4	MECH3850	Engr Dynamics PR: MECH2000, MATH2500	4	0	4	
	MECH3900	Engineering Heat Transfer PR: MATH2500, MECH2250, MECH3100	4	0	4	MECHXXXX	Advanced Thermodynamics PR: MECH2250	3	2	4	
	ELECTIVE	Technical or EPIC Elective	-	-	3	HUSS	HUSS PR: ENGL1100, 2200	4	0	4	
	HUSS	HUSS PR: ENGL1100, 2200	4	0	4						
	Total:				19	Total:				16	
Year	Fall 2022				Spring 2023				Summer 2023		
	Course	R	L	C	Course	R	L	C			
Fifth Year	HUSS	HUSS PR: ENGL1100, 2200	4	0	4	HUSS	HUSS PR: ENGL1100, 2200	4	0	4	
	ELECTIVE	Technical Elective	-	-	3	MGMT3200	Engineering Economy PR: MATH1750	3	0	3	
	ELMC5005	Electromech Systems I PR: MECH3850, ELEC4475, MATH2860	3	2	4	ELMC5505	Electromech Systems II PR: ELMC5005	3	2	4	
	ELMC5000	Senior Design I PR: MECH4400, ELEC4475, MECH4425	1	6	4	ELMC5500	Senior Design II PR: MATH2100, ELMC5000, ELMC5005	1	6	4	
	Total:				15	Total:				15	

Total: 174

PR: Prerequisite

CR: Co-requisite

HUSS: Humanities/Social Science*

R/L/C= Recitation/Lecture/Credits