

Curriculum Mechatronics		Fall 2023		
Page 1 of 2		Term		Grade
1st Semester				
ENGL 101	Composition and the Spoken Word	3		
ENGS 101	Intro to Engineering	2		
MATH 161	Calculus I	4		
CHEM 150	College Chem I & Lab	4		
PHYS 131	University Physics I	3		
PHYS 135	University Physics I Lab	1		
		17		
2nd Semester				
MECH 112	3D Modeling	3		
	GER Elective (3,4,5,6,7,8,9) ¹	3		
MATH 162	Calculus II	4		
	GER Elective (3,4,5,6,7,8,9) ¹	3		
PHYS 132	University Physics II	3		
PHYS 136	University Physics II Lab	1		
		17		
3rd Semester				
ENGS 201	Statics	3		
CITA 152	Computer Logic	3		
Liberal Arts Elective		3		
Math 263	Calculus III	4		
	GER Elective (3,4,5,6,7,8,9) ¹	3		
		16		
4th Semester				
MATH 364	Differential Equations	4		
CITA 180	Intro to Programming	4		
ENGS 263	Electric Circuits	3		
ENGS 264	Circuit Lab	1		
ENGS 203	Engineering Strength of Materials	3		
		15		
5th Semester				
ENGS 202	Dynamics	3		
ENGS 102	Programming for Engineers	2		
	GER Elective (3,4,5,6,7,8,9) ¹	3		
ELEC 141	Industrial Controls	2		
MKTX 320 Lab I	Mechatronics Lab I	1		
Liberal Arts Elective		3		
		14		
6th Semester				
MKTX 310	Instrumentation & Controls	3		
Liberal Arts Elective U/L		3		
MKTX 370	Mechatronics Laboratory II	1		
ENGS 350	Mechanical Design	3		
ELEC 165/166	Digital Fundamentals and System / Lab	3/1		
		14		

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7 th Semester	Page 2 of 2		Term	Grade
ENGS 314	Fluid Mechanics I	3		
MKTX 325	Microcontrollers	3		
MKTX 477	Capstone I	2		
MKTX 410	Robotics Analysis & Synthesis	3		
SOET/BSAD 361	Project Management	3		
Liberal Arts Elective U/L		3		
		17		
8 th Semester				
Liberal Arts Elective U/L		3		
MKTX 478	Capstone II	2		
Liberal Arts Elective U/L		3		
Program Elective U/L ²		3		
Liberal Arts Elective U/L		3		
		14		
	Total Credits	124		

Notes:

- 1 Must complete 7 of 10 GERS and 30 credits
- 2 Program electives are upper level from all ACHP, AREA, CITA, CONS, ELEC, MATH, PHYS, MECH, SOET course listing. Program electives are selected by advisement based on student interest and career goals.

GER Elective Course must come from the following list:

GER 3	Social Science	GER 7	Literature/Humanities
GER 4	American History	GER 8	The Arts
GER 5	Western Civilization	GER 9	Foreign Language
GER 6	Other Worlds		

Complete 7 of 10 GER's 3 and 30 credits

GER's: 1 2 3 _____ 4 _____ 5 _____ 6 _____ 7 _____ 8 _____ 9 _____ 10

Completed OSHA 10 Hour Safety Course and Certification is on Record: YES/NO

Graduation Requirements: Total Semester Credit Hours – 124

STUDENT _____ CERTIFIED FOR GRADUATION YES/NO

SSN _____ CERTIFIED BY _____

CLASS OF _____ G.P.A. 1 _____ 2 _____ 3 _____ 4 _____ 5 _____ 6 _____ 7 _____ 8 _____