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MAJOR IN MECHANICAL ENGINEERING, AEROSPACE ENGINEERING CONCENTRATION

Requirements Effective Fall 2023

Freshman			
		AUCC	Credits
CHEM 111	General Chemistry I (GT-SC2)	3A	4
CHEM 112	General Chemistry Lab I (GT-SC1)	3A	1
CO 150	College Composition (GT-CO2)	1A	3
MATH 160	Calculus for Physical Scientists I (GT-MA1)	1B	4
MATH 161	Calculus for Physical Scientists II (GT-MA1)	1B	4
MECH 103	Introduction to Mechanical Engineering		3
MECH 105	Mechanical Engineering Problem Solving		3
PH 141	Physics for Scientists and Engineers I (GT-SC1)	3A	5
Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/ 3#arts-humanities)		3B	3
Diversity, Equity, and Inclu	sion (http://catalog.colostate.edu/general-catalog/all-university-core-	1C	3
curriculum/aucc/#diversi	ty-equity-inclusion)		
	Total Credits		33
Sophomore			
CIVE 260	Engineering Mechanics-Statics		3
CIVE 261	Engineering Mechanics-Dynamics		3
ECE 204	Introduction to Electrical Engineering		3
MATH 261	Calculus for Physical Scientists III		4
MATH 340	Intro to Ordinary Differential Equations		4
Select one group from the following:			3
Group A:	•		
MECH 200	Introduction to Manufacturing Processes		
Group B:			
MECH 200A	Introduction to Manufacturing Processes: Lecture		
MECH 200B	Introduction to Manufacturing Processes : Laboratory		
MECH 201	Engineering Design I		2
MECH 202	Engineering Design II		3
MECH 231	Engineering Experimentation		3
PH 142	Physics for Scientists and Engineers II (GT-SC1)	3A	5
	Total Credits		33
Junior			
CIVE 360	Mechanics of Solids		3
MECH 301A	Engineering Design III: Finite Element Analysis		1
MECH 301B	Engineering Design III: Computational Fluid Dynamics		1
MECH 307	Mechatronics and Measurement Systems		4
MECH 324	Dynamics of Machines		4
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Social and Behavioral Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-	3C	3
curriculum/aucc/#social-behavioral-sciences)		
Total Credits		29

Program Total Credits:

Major in Mechanical Engineering, Aerospace Engineering Concentration

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