

MASTER OF ENGINEERING, PLAN C, ADVANCED MANUFACTURING SPECIALIZATION

Requirements Effective Summer 2023

Code	Title	Credits
MECH 411	Manufacturing Engineering	3
MECH 502	Advanced/Additive Manufacturing Engineering	3
Select 24 credits from the list of courses below:		24
Foundational Courses:		
MECH 464	Injection Molding	
MECH 513	Simulation Modeling and Experimentation	
MECH 530	Advanced Composite Materials	
MECH 531/ BIOM 531	Materials Engineering	
Applications:		
MECH 407	Laser Applications in Mechanical Engineering	
MECH 533	Composites Product Development	
Automation & Simulation:		
ENGR 510	Engineering Optimization: Method/ Application	
MECH 417	Control Systems	
MECH 428	Probabilistic Design	
MECH 529	Advanced Mechanical Systems	
MECH 564	Fundamentals of Robot Mechanics and Controls	
Processing of Materials:		
MECH 432	Engineering of Nanomaterials	
MECH 434	Materials Selection for Mechanical Design	
MECH 537	Processing of Polymer Composites	
MSE 502A	Materials Science and Engineering Methods: Materials Structure and Scattering	
MSE 502C	Materials Science and Engineering Methods: Materials Microscopy	
MSE 502E	Materials Science and Engineering Methods: Bulk Properties and Performance	
MSE 502F	Materials Science and Engineering Methods: Experimental Methods for Materials Research	
Program Total Credits:		30

A minimum of 30 credits are required to complete this program.¹

¹ Of the 30 minimum credits required for this program, at least 21 credits must be at the 500-level or above and earned at CSU.