Master of Engineering, Plan C, Advanced Manufacturing Specialization

The Master of Engineering, Plan C, Advanced Manufacturing Specialization is an on-campus or online degree program focused on providing students with the competencies, skills, and experience to advance in careers in a manufacturing industry. The curriculum includes subjects in manufacturing processes and process control, factory systems and supply chains, business fundamentals and the product development process. This is a coursework-only degree program with no thesis requirement.

Requirements
Effective Summer 2023

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>MECH 411</td>
<td>Manufacturing Engineering</td>
<td>3</td>
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<tr>
<td>MECH 502</td>
<td>Advanced/Additive Manufacturing Engineering</td>
<td>3</td>
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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 & Engineering Methods: Materials Structure and Scattering
- MSE 502C Materials Science & Engineering Methods: Materials Microscopy
- MSE 502E Materials Science & Engineering Methods: Bulk Properties and Performance

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.