# MASTER OF ENGINEERING, PLAN C, ADVANCED MANUFACTURING SPECIALIZATION

## Requirements

**Effective Summer 2023**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 411</td>
<td>Manufacturing Engineering</td>
<td>3</td>
</tr>
<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:

### 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.