

GRADUATE CERTIFICATE IN ADVANCED MANUFACTURING

The Graduate Certificate in Advanced Manufacturing provides students with the basic competencies, skills, and experience needed to advance their careers in a manufacturing industry. A graduate certificate requires completion of 9 credits of 500-level and above graduate work. Students may apply for and complete just the certificate or may apply for both the certificate and a degree program. This allows students to start with the certificate and continue to a more advanced degree.

[Students interested in graduate work should refer to the Graduate and Professional Bulletin.](#)

Learning Objectives

Students will:

1. Interpret and optimize manufacturing operations given an understanding of manufacturing support systems.
2. Identify and apply the appropriate manufacturing processes for a product given its specification and material properties.
3. Implement and integrate fundamental principles, critical technologies, processing parameters, and strengthening mechanisms of materials towards manufacturing applications.