ADVANCED MANUFACTURING ENGINEERING

Official Certificate Program



Central's Official Certificate Program in Advanced Manufacturing Engineering provides students an in-depth understanding and expertise in the analysis of advanced manufacturing systems and processes. By mastering the fundamentals of manufacturing concepts, graduates can take on leadership roles in their organizations to successfully address current and future issues.

Curriculum

Students in the Advanced Manufacturing Engineering OCP are required to complete 4 core courses for a total of 12 credits.

- Advanced Geometric Dimensioning and Tolerancing (GD&T) and Metrology
- Engineering of Additive Manufacturing Processes
- Advanced Manufacturing Engineering
- Engineering Optimization or Advanced Finite Element Analysis

Program Features

- 12-credit program
- Attend part-time
- Classes offered on-campus and online
- Program can be completed in 8 months
- No GMAT/GRE required

CENTRAL CONNECTICUT STATE UNIVERSITY

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What You'll Gain

- Ability to use computational methods, skills, computers, and modern technical tools to solve problems in advanced manufacturing
- Ability to identify, formulate, and solve technical problems in advanced manufacturing using engineering analysis
- Ability to design optimized manufacturing systems and plans using advanced statistical methods
- Knowledge of contemporary issues and understanding of the impact of engineering/ technical solutions within a global perspective
- Ability to communicate effectively in oral, written, visual and graphical modes

DID YOU KNOW?

The median annual pay for mechanical engineers was $90,000 in May of 2020.

Source: bls.gov

PROGRAM WEBSITE

Applying for Admission

For consideration, applicants must submit the following:

1. A completed online application with supplemental materials (ccsu.edu/apply):
   - Current resume (optional)
2. Official undergraduate and graduate transcripts from a regionally accredited institution of higher education (GPA of 3.00 or higher required on post-baccalaureate work)
   - Applicants must hold a four-year Bachelor of Science degree in Mechanical Engineering from an ABET accredited program
   - Applicants that hold a four-year Bachelor of Science degree in a different Engineering specialty must complete the necessary prerequisite foundation courses or their equivalents. Foundation course subjects include:
     - Mathematics
     - Chemistry
     - Physics
     - Engineering
     - Materials
     - Mechanical Engineering

Official transcripts may be sent directly to the Graduate Recruitment & Admissions Office:

By Mail: Central Connecticut State University
Graduate Recruitment & Admissions Office
1615 Stanley Street
Davidson Hall 116
New Britain, CT 06050

By Email: graduateadmissions@ccsu.edu

ABOUT CENTRAL:
Central Connecticut State University is the largest university within the Connecticut State Colleges and Universities system. Founded in 1849, Central is also the state's oldest publicly funded university. Our campus is located in New Britain, Connecticut. Central is accredited by the New England Commission of Higher Education (NECHE).



Information is subject to change. Please visit our website or contact graduate admissions for the most up to date information.