



Twin Cities Campus

Manufacturing Operations Management Certificate

CCAPS Certificate Programs

College of Continuing and Professional Studies

- **Students will no longer be accepted into this program after Summer 2020. Program requirements below are for current students only.**
- **Beginning Fall Semester 2020, admission to this certificate program will be suspended.**

- Program Type: Undergraduate credit certificate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 16
- Degree: Manufacturing Operations Mgmt Certificate

The manufacturing operations management certificate can assist students to move into a position of greater responsibility in the manufacturing industry. Students learn about the most recent manufacturing industry practices and technologies and understand them from the perspective of competitive business demands.

Program Delivery

This program is available:

- partially online (between 50% to 80% of instruction is online)

Admission Requirements

Students must complete 45 credits before admission to the program.

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

For information about University of Minnesota admission requirements, visit the [Office of Admissions website](#).

General Requirements

All students are required to complete general University and college requirements including writing and liberal education courses. For more information about University-wide requirements, see the [liberal education requirements](#). Required courses for the major or minor in which a student receives a D grade (with or without plus or minus) do not count toward the major or minor (including transfer courses).

Program Requirements

With approval of the program, up to 6 credits of transfer coursework may be used to satisfy requirements for this certificate.

Certificate Requirements

Core Requirements

[MM 3001W](#) - Manufacturing in the Global Economy [WI] (3.0 cr)

[MM 4102](#) - Optimizing Operations Management (3.0 cr)

Technical Electives

Choose ten credits from the following courses:

[MM 3205](#) - Engineering for Manufacturing Operations (3.0 cr)

or [MM 3305](#) - Advanced 3D Printing for Innovative Business Practices (3.0 cr)

or [MM 4011](#) - Virtual Reality and Simulation in Manufacturing (3.0 cr)

or [MM 4012](#) - Advanced Manufacturing: Applied Process and Technology (3.0 cr)

or [MM 4035](#) - Global Supply Chain Management (3.0 cr)

or [MM 4039](#) - The Science of Sourcing: Partnerships for Success (3.0 cr)

or [MM 4045](#) - The Product Life Cycle in a Regulated Industry (3.0 cr)

or [MM 4201](#) - Quality Engineering and Management (3.0 cr)

or [MM 4311](#) - Sustainable Lean Manufacturing: Eliminating the Waste (3.0 cr)

or [MM 4193](#) - Capstone Directed Study (3.0 cr)

or [MM 4596](#) - Internship (1.0 cr)