

Manufacturing Innovation

Certificate

DIVISION OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

This is a 12-month, three semester long fast track program that offers a stackable certificate in Advanced Manufacturing. The certificate program is designed to provide students with other pathways in the future, such as a relevant associate degree at a community college or for any student already holding a bachelor's degree, a relevant graduate degree.

Through the program, students develop skills necessary in today's advanced manufacturing industry through completing relevant hands-on course work, projects, and Internship /Co-op.

Graduates may select to open their own small manufacturing business or seek operational positions in a manufacturing company.

Upon successful completion, a Certificate in [Manufacturing Innovation](#) is awarded.

PROGRAM FOOTNOTES

Program Electives:

Biology:

BI 101 General Biology I with Lab

Business:

AC 101 Financial Accounting I, AC 102 Financial Accounting II, AC 210 Accounting Essentials with QuickBooks, MG 101 Principles of Management, MG 102 Small Business Management, MK 103 Principles of Marketing MK 213 Principles of Sales, MK 214 E-Commerce, MG 210 Entrepreneurship, OA 201 Business Communications

Coding:

CS 108 Fundamentals of Web Design, CS 109 Web and Social Media, CS 126 Digital Imaging, CS 176 Web Design

Computer Science:

CS 101A Making it Happen with Code, CS 101B Making it Happen with Artifacts, CS 101C Making it Happen with Robots, CS 101D Making it Happen with Data CS 108 Web Page Development I, CS 109 Web Page Development II, CS 126 Digital Imaging, CS 140 Introduction to Multimedia, CS 176 Web Design, ET 111 iCREAT: Introduction to Coding, Robotics, Engineering, and Technology

COURSE	COURSE TITLE	CREDITS
	<i>Semester 1</i>	
MN 130	Engineering Design with CAD I	4
MN 131A	Manufacturing Technology Fundamentals	1
MN 131B	Geometrics Dimensioning and Tolerancing	1
MN 131C	Statistical Process Control and Quality Assurance	1
MN 100	Career Readiness and e-Portfolio	1
BU 100	Introduction to Business	3
	Program Elective	1
	credits:	12
	<i>Semester 2</i>	
MG 210	Entrepreneurship	3
MN 133A	New Products Development	2
	Program Electives	1
MN 201	Co-op Dialogue (Optional)*	1
	credits:	12/13
	Total Credits:	24/25

Manufacturing:

MN 133 B Lean Six Sigma Fundamental, MN 140 Project Management