

# 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 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:**

**Business:** AC 101 Financial Accounting I, AC 102 Financial Accounting II AC 120 Accounting Using Peachtree, 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 210 Business Communications

##### **Computer Science:** CS 101 A Making it Happen with Code

CS 101 B Making it Happen with Artifacts, CS 101 C Making it Happen with Robots, CS 101 D 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

##### **Manufacturing:**

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

##### **Biology:**

Bl 101 General Biology I with Lab

COURSE	COURSE TITLE	CREDITS
<i>Semester 1</i>		
MN 130	Engineering Design with CAD I	4
MN 131 A	Manufacturing Technology Fundamentals	1
MN 131 B	Geometric Dimensioning and Tolerancing	1
MN 131 C	Statistical Process Control and Quality Assurance	1
MN 100	Career Readiness and e-Portfolio	1
BU 100	Introduction to Business	3
	Program Elective	1
<b>credits:</b>		<b>12</b>
<i>Semester 2</i>		
MG 210	Entrepreneurship	3
MN 133 A	New Product Development	2
	Program Electives	7
MN 201	CO-OP Dialogue (Optional)*	1
<b>credits:</b>		<b>12/13</b>
<b>Total Credits:</b>		<b>24/25</b>