TRANSFORM is a new, post-undergraduate certificate program in Advanced Manufacturing at MassBay Community College. Two curriculum options are available—one for Manufacturing Innovation and another for Manufacturing Technology.

ONE YEAR is all it takes—after completing 24 credit hours of classes, you will be qualified for a 4-6 month paid internship with one of our partners in the Advanced Manufacturing industry. The internship will include valuable training and experience, which will reinforce your new skills and add credibility to your future job applications. Find more information, including curriculum descriptions, on the back of this page.

Advanced Manufacturing Needs YOU!
Seeking qualified applicants to fill in demand careers

Apply now at stem.neu.edu/transform/apply
Consider TRANSFORM If:
- You are unemployed or underemployed.
- You have an interest in advanced manufacturing, technology & innovation.
- You want to receive training in under a year to be a competitive applicant for jobs in a field that is hiring.
- You have a degree but want to change your career or enhance your job skill.
- You want a paid industry internship.

Why Advanced Manufacturing?
- In Massachusetts, the advanced manufacturing industry employs 50% more workers than most other industries in the state. It is in demand!
- The average employee in advanced manufacturing earns $65,333 per year
- The number of job openings in advanced manufacturing is increasing—despite fluctuations in the overall economy, Massachusetts’ manufacturing industries have been hiring consistently. This includes job openings in the pharmaceutical, medical supply, electronics, aerospace, defense, and textile industries.

Future Careers
After completing the TRANSFORM program in only one year, you will be fully qualified to fill a number of in-demand jobs, including positions working with:
- CAD/CAM (Computer-Aided Design)
- Marketing & Sales
- Manufacturing Business Operations
- Quality Assurance and Quality Control

Curriculum at a Glance

Manufacturing Technology:
Semester 1
- MN 130 Engineering Design with CAD I
- MN 131 A Manufacturing Technology Fundamentals
- MN 131 B Geometric Dimensioning and Tolerancing
- MN 131 C Statistical Process Control and Quality Assurance
- MN 100 Career Readiness and e-Portfolio
- 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

Semester 2
- MN 205 Supply Chain Management
- MN 132 A Reverse Engineering, 3D Scanning and 3D Printing
- MN 132 B Numerical Control Machining
- MN 132 C Sustainability and Lifecycle Management
- Program Elective

Semester 3
- MN 201 Co-op Dialogue

Manufacturing Innovation:
Semester 1
- MN 130 Engineering Design with CAD I
- MN 131 A Manufacturing Technology Fundamentals
- MN 131 B Geometric Dimensioning and Tolerancing
- MN 131 C Statistical Process Control and Quality Assurance
- MN 100 Career Readiness and e-Portfolio
- BU 100 Introduction to Business
- Program Elective

Semester 2
- MG 210 Entrepreneurship
- MN 133 A New Product Development
- Program Elective
- Program Elective

Semester 3
- MN 201 Co-op Dialogue

Program Electives:
- Business Communications
- Digital Imaging
- E-Commerce
- Engineering Computation
- Entrepreneurship
- Financial Accounting
- Fundamentals of Electronics
- Introduction to Multimedia
- Lean Six Sigma Fundamental
- New Product Development
- Principles of Management
- Principles of Marketing
- Principles of Sales
- Project Management
- Small Business Management
- Web Design
- Web Page Development

Total Program Cost: $4,400
(for MA Residents)