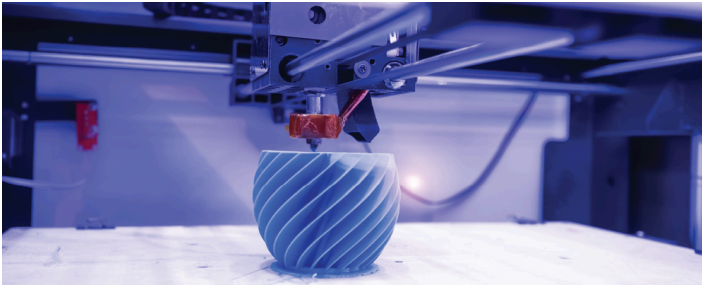


# DIGITAL DESIGN & PRODUCT INNOVATION, SHORT-TERM CERTIFICATE



This short-term certificate is one of the two programs, which, upon completion, lead to the award of a certificate of proficiency in additive manufacturing. This program is intended for students who wish to gain employment in modern manufacturing enterprises, involving but not limited to additive manufacturing.

**Program contact:** Learn more

**This certificate will be automatically awarded when the certificate requirements are completed. If you do not want to receive the certificate, please notify the Office of the Registrar at RegistrarOffice@tri-c.edu.**

Learn more about how certificate credits apply to the related degree and about related training programs.

## Program Admissions Requirements

- Contact program coordinator for application information.
- High School Diploma/GED
- ENG-0995 Applied College Literacies or higher, or appropriate score on English Placement Test recommended.
- MATH-0965 Intermediate Algebra or higher or qualified Math Placement.

## Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

1. Communicate effectively and efficiently with diverse individuals and teams, all levels of employees, customers, and suppliers by means of verbal, written (memos, reports, emails, etc.), graphics, symbols, and effective listening skills and using appropriate technology.
2. Complete tasks and projects on schedule through the effective use of time management, appropriate math skills, and teamwork that fosters inclusion, synergized efforts in problems identification, and troubleshooting for successful resolution of problems towards the achievement of set goals and objectives.
3. Apply quality systems, principles, concepts and utilize appropriate math, measurement and statistical tools and technology to improve processes, product quality, and to enhance productivity.
4. Incorporate safety awareness, principles and practices in every aspect of work and as a way of life, including machine safety, environmental safety, chemical safety, and personal/employee protection.

5. Apply the knowledge of the principles of drafting and the communication of ideas, designs and visualization skills as the language of the engineering field, including the creation and interpretation of drawings using proper dimensioning and tolerance for size and geometry, and use of 3D Modeling drawing programs to incorporate proper industry acceptable standards and conventions.

## Suggested Semester Sequence

First Semester		Credit Hours
MET-1100	Technology Orientation	2
MET-1230	Drawing & AutoCAD	3
MET-1250	Introduction to Additive Manufacturing	3
MET-1261	Product Ideation & Design I	3
<b>Credit Hours</b>		<b>11</b>
Second Semester		Credit Hours
MET-1270	Additive Manufacturing Processes	3
MET-2601	3D Solid Modeling	3
<b>Credit Hours</b>		<b>6</b>
<b>Total Credit Hours</b>		<b>17</b>

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.