

Area of Study: **Science and Engineering**  
 Pathway: **Engineering Technology/Fabrication**  
 Type: **Certificate**  
 Curriculum Code: **ENT.FAB.CERT (C448S)**

(Total Program Credits: 24-26)

The Engineering Technology/Fabrication curriculum provides the student with field experience to advance their knowledge of modern elements of fabrication, from an introduction to manufacturing with shop safety and manual machining operations through the use of CAD/CAM software interfacing with automated CNC equipment. Also included in the certificate is a course on the basics of machine elements, needed in the repair and maintenance of the high-end equipment of today’s automated manufacturing facilities.

**PROGRAM LEARNING OUTCOMES:**

At the successful completion of the Engineering Technology/Fabrication Certificate, the graduate will be able to:

- utilize safety practices in the lab;
- measure in the inches and metric systems;
- identify elements on a blueprint;
- document steps to fabricate a product;
- identify different types of fabrication processes;
- demonstrate use of basic math skills to fabricate a product; and
- set for taking the national Certified Production Technician (MSSC-CPT) exam.

**Program Map for Full-Time Students**

Semester 1	Category	Stackable Certificate	Stackable Degree	Next Steps
ENT 100 Introduction to Manufacturing (4)	<i>Required</i>			Meet with your <a href="#">Academic Advisor</a> to create an academic plan.  Explore stackable certificate(s)/degree(s)
ENT 116 ◊ Fabrication Processes (4)	<i>Required</i>			
ENT 117 ◊ Computer Numeric Controls I (4)	<i>Required</i>			

12 Credit hours

Semester 2	Category	Stackable Certificate	Stackable Degree	Next Steps
ENT 110 ◊ Engineering Design Graphics/CAD (4)	<i>Required</i>			Meet with your <a href="#">Academic Advisor</a> to finalize your academic plan for graduation and register for stackable certificate/degree (option).
ENT 111 ◊ Metrology with Geometric Dimensioning and Tolerancing (3)	<i>Required</i>			
ENT 118 ◊# Computer Numeric Controls II (4) OR ENT 290 ◊# Cooperative Work Experience (2)	<i>Required</i>			Submit graduation petition by deadline (check for the specific date in catalog or syllabus.)
ENT 144 ◊# Sheet Metal Fabrication (3)	<i>Required</i>			

12-14 Credit hours

*See ENT course descriptions (p. **Error! Bookmark not defined.**).*

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