

The certificate of proficiency and the technical certificate programs give the student the opportunity to earn certificates while completing steps toward an Associate of Applied Science degree.

2023-2024



**TECHNICAL CERTIFICATE PLAN  
MARINE MANUFACTURING**

**Degree Code: 2136; CIP Code: 15.0617**

All technical certificate-seeking students must meet the freshman assessment and placement requirements.

If deficiencies exist, the student must complete the required CPT courses.

**A 2.0 GPA is required for graduation from the  
Technical Certificate in Marine Manufacturing program.**

**ATTENTION STUDENTS: PLEASE SEE CURRENT CATALOG FOR  
ALL FEES AND CHARGES ASSOCIATED WITH THIS CERTIFICATE.**

The Technical Certificate in Marine Manufacturing is for students interested in boat manufacturing, trailer manufacturing, or other fiberglass composite constructions. The program integrates basic tools, welding, electrical, gel coat application, and open and closed molded lamination into the manufacture of boats and boat trailers. The skills taught in this program also apply to automotive and other industries.

**Student Learning Outcomes for TC Marine Manufacturing Program**

1. Students will be employable in an entry-level boat manufacturing position.
2. Students will apply basic chemistry of composite materials and reactions in the workplace.
3. Students will demonstrate the use of various industry-recognized tools and equipment.

In addition to these program-specific outcomes, the following general outcomes should apply:

4. Applications of Math and the Natural Sciences appropriate to degree or field of study.
5. Composition and Oral Communication.

Name: \_\_\_\_\_  
Advisor: \_\_\_\_\_

Date: \_\_\_\_\_  
Student ID# \_\_\_\_\_

<u>COURSE CODE</u>	<u>COURSE NAME</u>	<u>CREDIT HOURS</u>	<u>HOURS COMPLETED</u>
<b>General Education</b> (6 credit hours)			
ENG 1003	Composition I (must earn a "C" or better)	3	_____
MATH 1113	Applied Math or higher-level mathematics course	3	_____
<b>Boat Manufacturing Core</b> (30 credit hours)			
BOAT 1003	Introduction to Boat Manufacturing	3	_____
BOAT 1014	Basic Hand Tools/Safety	4	_____
BOAT 1024	Gel Coat Basics	4	_____
BOAT 1031	Masking	1	_____
BOAT 1104	Intermediate Gel Coat	4	_____
BOAT 1204	Introduction to Composite Materials	4	_____
BOAT 2314	Closed Mold Lamination	4	_____
TECH 1012	Employment Strategies	2	_____
TECH 1044	Computer Aided Design (CAD)	4	_____

**Program Total 36 Hours**