



### **SMART Maritime Technologies Pathway**

The SMART (Southeast Maritime and Transportation) Center, in conjunction with its host institution Tidewater Community College (TCC), developed the **Maritime Technologies pathway** that features: (1) **academic credit for required apprentice-related instruction (ARI)** and (2) **stackable academic certificates** that can be applied toward additional certificates or the A.A.S. Maritime Technologies degree.

- 2 Math Electives (6)

- 1 Humanities Elective (3)

- 5 Approved Electives (15)

- College Composition I (3)

- 2 Cooperative Education (6)

- 2 Social Science Electives (6)

#### A.A.S. Maritime Technologies

- Machine Blueprint Reading (3)
- Intro to Ship Systems (3)
- CAD Drafting and Design I (4)
- Principles of Industry Safety (3)
- Quality Assurance Technology (3)
- Technical Writing (3)
- Orientation to Maritime Careers (3)
- Team Concepts & Problem Solving (3)
- Intro to Computer Applications & Concepts (4)
- **TOTAL: 67 credits**

- CPR (1)

## Completers will be:

- well-prepared for good-paying careers as a skilled craft technician in the maritime and transportation industry as a marine electrician, electronics technician, inside machinist, outside machinist, pipefitter, rigger, painter, carpenter, insulator, shipfitter, welder, and sheetmetal worker;
- well-positioned for promotion into supervisory positions within their technical fields and within their companies with on-the-job experience.

#### **CSC Marine Mechanical**

- Machine Blueprint Reading (3)
- Intro Ship Systems (3)
- Orientation to Maritime Careers (1)
- Mechanisms (2)
- Fluid Power Hydraulic Systems (3)
- Mechanical Maintenance I (3)
- Fluid Power Pneumatic Systems (3)

### **TOTAL: 19 credits**

# **CSC Maritime Technologies**

- Machine Blueprint Reading (3)
- Intro Ship Systems (3)
- Orientation to Maritime Careers (1)
- Quality Assurance Technology I (3)
- Technical Writing (3)
- Team Concepts & Problem Solving (3)
- Technical Mathematics I (3)
- 2 Electives (6-8)

TOTAL: 25-27 credits

#### CSC Marine Electrical

- AC/DC Circuit Fundamentals (3)
- Intro Ship Systems (3)
- Marine Electrical for Vessels (3)
- Transformer Connections & Circuits (2)
- Electric Motor Control (4)
- Marine Electronics for Vessels (4)

**TOTAL: 19 credits** 

### **CSC Maritime Welding**

- Intro to Maritime Welding (3)
- Intro Ship Systems (3)
- Maritime Shielded Metal Arc Fillet Welding (3)
- Maritime Shielded Metal Arc Groove Welding (3)
- Maritime Flux Core Arc Fillet Welding (3)
- Maritime Gas Metal Arc Fillet Welding (3)
- Maritime Gas Tungsten Arc Fillet Welding (2)

**TOTAL: 19 credits** 



High School Graduates



Dual Enrollment (DE) H.S. Students



Veterans



**Career Changers**