

2024-2025 TTC Catalog

General Technology - Marine Engineering Technology

Associate in Applied Science in General Technology

Marine Engineering Technology Career Path

82 Credits

The General Technology major allows students to select course work necessary to become multi-skilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

This career path provides students with the opportunity and fundamental knowledge to work aboard United States Merchant Mariner vessels with the engine department upon successful completion of TTC's initial course work in the General Education Core and Primary Technical Specialty requirements. Students receive a comprehensive knowledge of machinery theory as well as hands-on experience to install, repair and maintain various types of equipment.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

ENG 101 English Composition I 3
MAT 170 Algebra, Geometry and Trigonometry I 3
SPC 209 Interpersonal Communication 3

REQ HUM Select from 3
[Humanities](#)

REQ SSC Select from 3
[Behavioral/Social Sciences](#)

Total: 15

Primary Technical Specialty Requirements

IET 223 Industrial Safety 3
IMT 106 Fundamentals of Industrial Technology 3
IMT 115 Industrial Schematics 3
IMT 127 Industrial Pumps 3
IMT 131 Hydraulics and Pneumatics 4
IMT 140 Industrial Electricity 5
IMT 151 Piping Systems 3
IMT 160 Preventive Maintenance 3
IMT 161 Mechanical Power Applications 4

IMT 163 Problem Solving for Mechanical Applications 3
MTT 120 Machine Tool Print Reading 3

Total: 37

Secondary Technical Specialty Requirements

ACR 106 Basic Electricity for HVAC-R 4
ACR 108 Refrigeration Fundamentals 3
ACR 109 Tools and Service Techniques II 2
MTT 111 Machine Tool Theory and Practice I 5
WLD 111 Arc Welding I 4

and

MNT 001 Marine and Nautical Technology Non-Equivalent *

*Students receive 12 hours of elective for marine and nautical technology course work transferred from another college for which there is no equivalent course at TTC.

(Total: 12)

or

Maritime Work Experience

CWE 113 Cooperative Work Experience 3 (1st Work Experience)
CWE 123 Cooperative Work Experience 3 (2nd Work Experience)
CWE 133 Cooperative Work Experience 3 (3rd Work Experience)
CWE 213 Cooperative Work Experience 3 (4th Work Experience)
(Total: 12)

Total: 30

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.