

**MASSACHUSETTS MARITIME ACADEMY
ENGINEERING SYSTEMS AND SAFETY EN-1112 (2-1/2 credits)**

FALL 2012

INSTRUCTORS: CDR Henry Lamb, Jr., Professor (MMA)
CDR Thomas Stanton, Professor (MMA)

OFFICE: Harrington Building, Room 221A – CDR Lamb
Bresnahan Hall, Room C308 – CDR Stanton

TELEPHONE & EMAIL: CDR Lamb (ext. 2072) – hlamb@maritime.edu
CDR Stanton (ext. 2062) – tstanton@maritime.edu

OFFICE HOURS: Posted on office door or by appointment

Course Objective:

To introduce the student to the field of Engineering Systems and Safety Procedures used on board vessels and in the stationary power plant industry. The course will include basic safety specifications set forth in the STCW regulations and OSHA regulations. The importance of proper watch keeping, terminology, communications, pollution and energy-control procedures will be discussed. Engineering safety will always be prioritized.

Textbooks:

*Facilities & Marine Engineering Foundation
Introduction – Course Book*

Attendance Policy:

Attendance is mandatory as a matter of Academy policy. Absences from class and/or laboratory will lower the final grade point average two (2) points for each such absence.

Special Liberty Policy:

The Engineering Department does not recognize special liberty requests. Please do not ask the instructor to sign a special liberty request.

Notebooks:

Students are expected to maintain a three-ring notebook for the course materials.

Uniform and Dress Code:

Cadets are expected to be in the proper uniform of the day as announced by the Commandant of Cadets Department.

Grading Policy:

Tests (three) 100%

All test dates will be announced in advance.

All Engineering Labs (EN-1112L) must be attended and completed to the satisfaction of the lab instructors to receive a final grade in this course.

(OVER)

Disability Accommodation:

Massachusetts Maritime Academy is committed to providing reasonable accommodations to students with documented disabilities. Students who believe that they may need accommodations in their class are required to contact:

Dr. Fran Tishkevich, Disability Resource Director

Harrington Building, 3rd floor, room 311A

Telephone extension 2208

Email address – ftishkevich@maritime.edu

Course Outcomes:

- Understanding of steam cycle component pressures temperatures and terminology
- Engine room watch keeping procedures
- Engine room safe working practices including lock-out-tag-out and confined space
- Engine room alarm and evacuation procedures and emergency equipment
- Basic maintenance of machinery and equipment
- Knowledge of personal safety and social responsibility
- Safe operation of boilers
- Fighting fires onboard ship
- Emergency equipment and emergency procedures