MARR - MARINE ENGR TECHNOLOGY (MARR)

MARR 101 Marine Engineering Fundamentals  
Credits 2. 1 Lecture Hour. 3 Lab Hours.  
A study of basic marine engineering systems, with emphasis on propulsion plants; propulsion plant machinery, watch standing organization and duties, shipboard safety practices and equipment.

MARR 102 Engine Room Resource Management and Dynamics  
Credit 1. 0 Lecture Hours. 2 Lab Hours.  
Marine engineering watch standing and operations, safety and security, effective resource management and control of engine room equipment, leadership and managerial skills.

MARR 200 Basic Operations  
Credits 6. 6 Lecture Hours.  
Practical application of student’s classroom studies while at sea on training ship during sea-training period. Student required to complete several projects relating to engineering plant of ship.  
Prerequisite: MART 103.

MARR 300 Intermediate Operations  
Credits 6. 6 Lecture Hours.  
Training program for second sea-training period. Sea project required of each student under supervision of officer-instructors. Lifeboat and safety training.  
Prerequisite: Junior or senior classification or approval of instructor.

MARR 400 Advanced Operations  
Credits 6. 6 Lecture Hours.  
Training program for third sea-training period. At the end of this period each student will have achieved the knowledge and will have demonstrated the ability to take complete charge of a modern marine power plant while underway at sea.  
Prerequisite: Junior or senior classification or approval of instructor.

MARR 451 Senior Capstone Project I  
Credits 2. 1 Lecture Hour. 3 Lab Hours.  
Design, modeling, testing and validation processes; design of equipment, components, or systems for seagoing vessels; use of design manuals, material/equipment specifications and industry regulations applicable to marine engineering technology.  
Prerequisites: MARE 206, 242, 309, 313; MARR 306, 311, 312; PHYS 208. Senior classification.

MARR 452 Senior Capstone Project II  
Credits 2. 1 Lecture Hour. 3 Lab Hours.  
Continuation of MARR 451; implementation of ship-related project initiated and developed therein, which may include development of theoretical, computational or experimental models and/or formulation, construction, and fabrication work; refining, experimenting, and testing of models considering alternatives; analyzing results and preparing and submitting design documents including a project report.  
Prerequisite: MARR 451.