

MARITIME TRANSPORTATION (NAUT)

NAUT 1171 Medical Care Provider 1 Credit (1 Lec, 1 Lab)

This course is designed for licensed deck officers who provide immediate first aid to ship's personnel and to assist the ship's medical person-in-charge. The course provides training for candidates who provide medical care to the sick and injured when they remain on board ship.

Course Type: Technical

NAUT 1174 Maritime Regulation and Management 1 Credit (1 Lec, 0 Lab)

This course covers an in-depth examination of the laws and regulations surrounding the maritime transportation industry, and how the industry responds. The Jones Act, EPA, SOLAS, MARPOL, STCW, Flag, Class and Port State Control and Subchapter M will be reviewed. Case studies of well-known industry incidents will be reviewed. Industry responses such as the AWO/RCP-ISM Code and SEMS will be discussed. Students will learn about vessel safety and environmental management systems as well as document control, internal auditing, corrective and preventive action, change management and risk analysis and control.

Course Type: Technical

NAUT 1230 Marine Engineering Familiarization 2 Credits (1 Lec, 2 Lab)

This course is for entry-level mariners to perform basic maintenance and minor repairs aboard vessels.

Course Type: Technical

NAUT 1255 Maritime Law and Regulations 2 Credits (2 Lec, 0 Lab)

This course an in-depth coverage of the laws and regulations surrounding the maritime transportation industry and how the industry responds and manages.

Course Type: Technical

NAUT 1272 Marine Cargo Operations I 2 Credits (2 Lec, 1 Lab)

This course is an examination of passenger, containerized, roll on-roll off, break bulk and dry bulk cargo vessels including issues associated with the loading, carriage and discharge of passengers and cargos. Requirements of special refrigerated and dangerous cargoes, cargo loss prevention, heavy-lift operations will be discussed. Emergency procedures, passenger safety and crowd and crisis management will be explored.

Course Type: Technical

NAUT 1273 Engineering Familiarization 2 Credits (2 Lec, 1 Lab)

This course is intended for both deck and engineering ratings that have little or no experience in the engine room who served on board a vessel as part of the regular complement and covers the mandatory minimum training requirements for engineering. The training includes basic safety and pollution prevention precautions and procedures, layouts of different types of engine rooms, types of hazards and handling equipment, general operational sequence and engine room terminology.

Course Type: Technical

NAUT 1274 Marine Cargo Operations II 2 Credits (2 Lec, 1 Lab)

This course is an in-depth study of the transport of bulk liquid cargoes by tankship. The course topics include: vessel design/construction, oil/chemical cargo characteristics, cargo system design, cargo pumps, loading/discharging operations, venting/vapor control systems, ballasting/deballasting operations, tank cleaning, gas freeing/enclosed space entry, inert gas systems, crude oil washing operations, oil pollution regulations and control, and tanker safety. It includes basic safety and pollution prevention precautions and procedures, layouts of different types of oil tankers, types of cargo, their hazards and their handling equipment, general operational sequence and oil tanker terminology. The course takes full account of the annex to resolution 10 adopted by the International Conference on Training and Certification of Seafarers, 1978. Any applicant successfully completing this course will satisfy the training requirements of 46 CFR for an endorsement as Tankerman PIC Barge-Dangerous Liquids.

Course Type: Technical

NAUT 1276 Seamanship II 2 Credits (2 Lec, 1 Lab)

This course is an introduction to vessel characteristics, vessel operations and ship handling with a focus on inland, coastal, oil and towing vessels. Ship handling in inland waters, narrow channels as well as maneuvering in heavy seas, docking, undocking, mooring will be discussed. The make-up of tows and the use and maintenance of towing machinery and gear will be discussed.

Prerequisite(s): NAUT 1372

Course Type: Technical

NAUT 1305 Introduction to Ships and Shipping 3 Credits (3 Lec, 1 Lab)

This course is a presentation of the maritime industry and ships used in the transportation of goods and services. Maritime nomenclature, and types, missions, and construction of vessels.

Course Type: Technical

NAUT 1315 Basic Safety 3 Credits (2 Lec, 2 Lab)

This course contains the fundamentals of the four modules of Standards for Training, Certification, and Watchkeeping (STCW) Basic Safety Training: Basic Firefighting, Personal Safety and Social Responsibility, Personal Survival, and First Aid CPR. It is designed to teach new skills to the entry-level mariner with minimal sea-going experience and serves to increase awareness and promote safety in maritime.

Course Type: Technical

NAUT 1320 Seamanship I 3 Credits (2 Lec, 2 Lab)

This course is a study of seamanship designed to introduce students to the vessel operations and prepare them for employment. It is designed to teach new skills to the entry-level mariner with minimal sea-going experience and serves to increase awareness and promote safety in maritime.

Course Type: Technical

NAUT 1345 Marine Cargo Operations 3 Credits (3 Lec, 1 Lab)

This course is an overview of modern cargo principles and handling, including loading, stowage, and discharge operations.

Course Type: Technical

NAUT 1372 Seamanship I 3 Credits (3 Lec, 1 Lab)

This course is a study of seamanship designed to introduce the student to the maritime workplace and prepare them for employment. The students are prepared for the role of Able Bodied Seaman and assignment to lookout and watch keeping duties aboard inland, coastal and ocean going vessels. Vessel Security Officer responsibilities will also be addressed. This course is designed to teach new skills to the entry-level mariner with minimal sea-going experience and serves to increase awareness and promote safety in maritime surroundings.

Course Type: Technical

NAUT 1374 Basic Safety and Survival 3 Credits (2 Lec, 2 Lab)

This course combines the four modules of SCTW Basic Safety Training: Basic Firefighting, Personal Safety Social Responsibility, Personal Survival and First Aid CPR, with a module on Proficiency in Survival Craft to provide a comprehensive introduction to safety and survival at sea. The course provides required practical lifeboat and lifesaving training for certification as Life boatman by the U.S. Coast Guard. Hands on training will include time on a fire training field, work in pools with life rafts and survival gear and launching and rowing a lifeboat.

Course Type: Technical

NAUT 1471 Introduction to Ships and Shipping 4 Credits (4 Lec, 0 Lab)

This is an introduction to the maritime industry and ships used in the transportation of goods and services. Shipboard nomenclature, types and missions of merchant ships, shipbuilding, shipbuilding materials and methods, modes of cargo handling and their impact on ship design.

Course Type: Technical

NAUT 2171 Upgrade to Apprentice Mate 1 Credit (1 Lec, 0 Lab)

This course provides instruction in subjects pertaining to a mariner in training to become master or mate (pilot) of towing vessels or master of towing vessels (harbor assist).

Course Type: Technical

NAUT 2205 Basic Stability and Vessel Construction 2 Credits (2 Lec, 1 Lab)

This course is an overview of the calculation for marine vessel stability and construction, including features, terminology, and principles of stability. Includes an analyses of case studies involving loss of stability.

Course Type: Technical

NAUT 2272 Radar Observer Unlimited 2 Credits (2 Lec, 1 Lab)

This course covers the proper use of radar for risk assessment, collision avoidance, and navigation. Trainees use commercial radar equipment with landmasses, environmental effects and vessel returns generated by Transas simulation.

Course Type: Technical

NAUT 2274 Basic Stability and Ship Construction 2 Credits (2 Lec, 1 Lab)

This course provides the background knowledge for a thorough understanding of the calculations for vessel stability and trim, basic ship construction features and terminology, and principles of stability. Subjects include: ship dimensions, ship stresses, hull structure, rudders and propellers, displacement, buoyancy, static and initial stability, list, trim and free surface effect, principles, terms and procedures used in the determination of transverse, longitudinal and damage stability of ships. Also included are analyses of case studies involving loss of stability and how to perform trim and stability calculations. The course covers ship design and construction as it relates to all types of vessels as well. Topics include hull structure and components, vessel design process, design stresses, tonnage measurements and load line assignments. This course aims to meet the mandatory minimum requirements for knowledge, understanding and proficiency in Table A-II/2 of STCW 1995 for the function Navigation at the Officer in Charge of a Navigational Watch on vessels of 500 or more gross tonnage (ITC) Level.

Course Type: Technical

NAUT 2278 Bridge Resource Management and Shiphandling 2 Credits (2 Lec, 1 Lab)

This course covers Bridge Watchstanding. Integration of Navigation, communications and seamanship in BRM training required under the International Convention on the Standards for Training, and Certification of Watchkeepers, using simulator based teaching techniques. This course covers turning circle and stopping distance, effects of wind and current, man overboard maneuvers, shallow water effects, anchoring and steering control systems. It also covers fundamentals of shiphandling for vessels based on double and single-screw theory. Applied instruction in ship-handling techniques, includes: backing and filling; "Y-backing"; emergency stopping; flanking; and docking and undocking; and procedures and basic anchoring. It utilizes full mission visual simulation to reinforce theoretical lessons.

Course Type: Technical

NAUT 2301 Able Bodied Seaman and Lifeboatman 3 Credits (2 Lec, 3 Lab)

This course develops skills, knowledge, understanding and proficiency to meet US Coast Guard Able Bodied Seaman and Lifeboatman certificate requirements.

Prerequisite(s): NAUT 1315 and NAUT 1320.

Course Type: Technical

NAUT 2310 Seamanship II 3 Credits (2 Lec, 2 Lab)

This course is an introduction to vessel handling characteristics.

Prerequisite(s): NAUT 1320.

Course Type: Technical

NAUT 2330 Radar Observer Unlimited 3 Credits (2 Lec, 2 Lab)

This course covers advanced concepts of the proper use of radar for risk assessment, collision avoidance, and navigation.

Prerequisite(s): NAUT 2415.

Course Type: Technical

NAUT 2364 Practicum 3 Credits (0 Lec, 30 Lab)

This course is a practical, general workplace training supported by an individualized learning plan developed by the employer, College, and student.

Prerequisite(s): NAUT 1315.

Course Type: Technical

NAUT 2365 Practicum 3 Credits (0 Lec, 30 Lab)

This is a practical, general workplace training supported by an individualized learning plan developed by the employer, College, and student.

Prerequisite(s): NAUT 1315.

Course Type: Technical

NAUT 2415 Terrestrial Navigation 4 Credits (2 Lec, 4 Lab)

This course is a presentation of technical and practical concepts of Terrestrial Navigation. It provides the background introductory knowledge in planning a voyage, and supporting the tasks, duties, and responsibilities in navigating vessels.

Course Type: Technical

NAUT 2445 Master 100 ton/200 ton Mate 4 Credits (3 Lec, 3 Lab)

This course examines subjects pertaining to a mariner becoming a 100-ton master/200-ton mate.

Prerequisite(s): NAUT 2415.

Course Type: Technical

NAUT 2471 Terrestrial and Coastal Navigation 4 Credits (3 Lec, 2 Lab)

This course is designed to teach the student the technical and practical concepts of Terrestrial Navigation. Areas covered include terrestrial coordinates, nautical charts, navigation publications, plotting and position lines, navigation aids, compass corrections, set and drift, charts and chart work, logbooks. This course provides the background introductory knowledge in planning a voyage and to support the tasks, duties and responsibilities in navigating vessels up to 200 tons.

Course Type: Technical

NAUT 2472 Integrated Operations for the Master Mariner 4 Credits (3 Lec, 2 Lab)

This is a seminar style course reviews and integrates all leaning in the program into the coherent body of knowledge necessary to serve as Master of vessels of up to 200 tons. The course first builds the knowledge required for a license as Master, 100 GRT, which includes the applicable regulations and operational procedures necessary to operate a vessel of up to 100 Gross Tons in the Near Coastal/Inland/ Great Lakes operating environment. Professional training includes navigation, tidal calculations, international and inland rules of the road, coastal pilotage, meteorology, anchoring and mooring, docking, and undocking operations, voyage and passage planning, stability and vessel construction, and marlinspike seamanship. The course will then examine the body of knowledge necessary to Upgrade Master 100 Tons to Master 200 Tons course and presentation of the Certificate of Training at a Regional Exam Center WITHIN ONE YEAR of the completion of training, will satisfy the exam requirements of 46 CFT 10.207 for upgrade of a license from Master 100Tons Near Coastal to Master 200 Tons Near Coastal. Students will develop a good understanding of the subjects for upgrade from not more than 100 to not more than 200-Ton Great Lakes, Inland and Near Coastal Master licenses. The level of understanding will meet the standard for passing the upgrade from not more than 100-Ton to not more than 200-Ton Coast Guard examination given in the Regional Examination Centers.

Course Type: Technical