

# MARITIME TRANS MGMT SECURITY (MTMS)

## **MTMS 101 Intro to Maritime Transp (3 Credits)**

Introduction to Maritime Transportation (3) This course presents an introduction to the interdisciplinary study of maritime-related topics with an examination of the physical maritime environment and maritime cultures, history, and industries. Students enrolled in this course will learn what maritime transportation consists of, how it operates, how it is characterized economically, and how it is regulated. Three hours of lecture per week.

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

## **MTMS 102 Into To Logistics (3 Credits)**

This course presents problems and issues related to Logistics. Specially the description of the course includes functions, processes and objective of the logistics operation. Industrial distributor and its relationship to other channel members. It is designed to acquaint the student with the basic logistical functions (warehousing, inventory control, order processing, customer service, packaging and transportation). Explores techniques used in analyzing distribution costs as well as planning distribution systems.

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

## **MTMS 121 Overview International Business and Ocean Ship (3 Credits)**

This course gives an overview of the global business environment and its implications for operations, management, pricing promotion, financial strategies. It also introduce the maritime capabilities in facilitation of contemporary supply chains, the liner and tramp segments of the international marine transportation industry, and their role in international trade. Three hours of lecture per week.

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

## **MTMS 202 Maritime Law (3 Credits)**

Maritime Law (3) This course covers the process involved in the exercise of jurisdiction by nations over the maritime area. It presents the roles of major global shipping on nations' maritime policy, with special emphasis on past and present maritime legislation, business regulations, corporate governance issues, and related case studies. Three hours of lecture per week.

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

## **MTMS 295 Field Work Practice Logistic I Management (3 Credits)**

This course provides students with field work opportunities to gain hands-on experience in various Logistic and materials management related work. Students enrolled in this course are required to submit a written report of the practicum or project experience, detailing the specific tasks performed. Three hours of lecture per week.

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

## **MTMS 303 American Maritime History (3 Credits)**

American Maritime History (3) This course presents the development of American maritime enterprise from colonial times to the era of the container ship, and its relationship to American political, economic, and cultural history. Three hours of lecture per week.

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

## **MTMS 321 Intl Business & Ocean Shipping (3 Credits)**

International Business and Ocean Shipping (3) This course presents the global business environment and its implications for operations, management, pricing, promotion, and financial strategies. It also presents the maritime capabilities in facilitation of contemporary supply chains, the liner and tramp segments of the international marine transportation industry, and their role in international trade. Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

## **MTMS 322 Port & Terminal Operation Mgmt (3 Credits)**

Port and Terminal Operation Management (3) This course provides an overview of the history, growth, organization, and operation of major ports and transportation terminals, including logistics processes such as on-dock rail, strategic and tactical planning, harbor drayage, terminal gate protocols, equipment and cargo movement, and integration of marine port and terminal operations with other modes of transportation. It introduces the functions of the port divided along business lines, different types of marine terminals, and the day-to-day operational, financial, and labor issues of ports and terminals. Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

## **MTMS 341 Maritime Security Mgmt (3 Credits)**

Maritime Security Management (3) This course provides the basic framework and knowledge to perform the duties and responsibilities of a Company Security Officer (CSO), Port Facility Security Officer (PFSO), or Ship Security Officer (SSO) as defined by the ISPS Code. It presents how to implement and maintain a security plan and how to work with other security officer. Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

## **MTMS 342 Maritime Security Technology (3 Credits)**

Maritime Security Technology (3) This course explores the implications and consequences of the scientific and technological issues in terms of maritime security in the social and political context. It presents instruction and discussion on current security issues and technologies. For example, containers now coming out of a port terminal are scanned for radiation; what can the scanners detect and if radiation is detected, what does that mean? How would a city be evacuated in the event a nuclear device was detected? Another example of technology with far reaching implications is that of biometrics: suppose everybody had their retina patterns in a national database? When is personal information too intrusive for government access? Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 361 Maritime Environment Mgmt (3 Credits)**

Maritime Environmental Management (3) This course presents an overview of the basic environment regulations as they pertain to the maritime industry. The environmental management strategies (EMS) to be covered include knowing the fundamental structure of environmental strategies, EMS alternatives, alternative dispute resolution, how an effective EMS can reduce costs and increase profits, and what environmental laws may be triggered by relevant activities. Sections of the following laws pertaining specifically to Vessel Operations are used: MARPOL, Resource Conservation and Recovery Act, Clean Water Act, Montreal Protocol, and State Statutes. Three lecture hours per week. Pre-requisite MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 423 Marine Cargo Operations (3 Credits)**

Marine Cargo Operations (3) This course is an introduction to the objectives and problems with break-bulk cargo handling during loading, discharging, and in-transit carriage. It presents the role of the ship in integrated transportation systems, the methods of cargo loss prevention, and the maximum cargo efficiency with relation to space, cargo gear, crew, and labor costs. Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 424 Contain & Modern Cargo Storage (3 Credits)**

Containerization and Modern Cargo Storage (3) This course presents the principles and regulations for transporting special refrigerated and hazardous cargo. It addresses the security of shipments from a regulatory, operational, and global business perspective. Students enrolled in this course will be trained to identify dangerous goods and know that they are to be stowed and separated according to the requirements. Students will also learn the hazards related to bulk cargoes and the precaution to take during their loading and carriage. Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 425 Int'l Intermodal Transport (3 Credits)**

International Intermodal Transportation (3) This course is designed to examine the modern inter-modal transportation and distribution systems used in the movement of international and domestic cargo. It presents the evolution, development, and use of rail, air, truck, and maritime transportation systems, and their dynamic impacts on international trade. Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 443 Maritime Trnsp Security (3 Credits)**

Maritime Transportation Security (3) This course focuses on the International Ship and Port Security Code (ISPS) and domestic maritime security policies. It presents an introduction of port and ship vulnerability assessments, security plan implementation procedures, various levels of shipboard security responsibilities, and security administration. It also explores elements of chemical, biological and radiological defense (CBRD), and crisis management. Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 444 Contemp Maritime Security (3 Credits)**

Lectures in Contemporary Maritime Security Issues (3) This course invites prominent experts in maritime and intermodal security to give special lectures on various topical issues of the day in their field of security. Students enrolled in this course are required to submit a term paper that integrates the information from different speakers and their research project experience. Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 445 Maritime Risk Assessmnt & Mgmt (3 Credits)**

Maritime Risk Assessment and Management (3) This course is designed to develop the concepts required for maritime risk-based planning and analysis, and the methods used to conduct vulnerability assessment for natural disaster, technological hazards, and terrorist threats. The topics to be covered included: 1) Introduction and Analysis, such as Process Descriptions, Hazard Identification, Source Models, Consequence Analysis; 2) Assessment, such as Exposure Assessment, Does Response and Risk Characterization, Radiation Risk Assessment, Environmental Assessment; and 3) Management, such as Structural Activity Relationships, Risk Management, ISO 14000. Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 446 Maritime Risk&Resiliency Analy (3 Credits)**

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 447 MRTM Big Data Analtcs &Scurty (3 Credits)**

This course is designed to provide undergraduate students majoring in Maritime Transportation Management and Security an overview of maritime big data and its role in improving maritime security. It also presents an introduction to the big data analytics for the maritime big data and its importance in improving the maritime security. The course will be 3 credit hours.

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 462 Marine Environmental Project (3 Credits)**

Marine Environmental Protection (3) This course offers an interdisciplinary approach to ways in which human beings control adverse effects to the marine environment. It presents various environmental situations and the methods of applying scientific knowledge about the coastal areas to the human, economic, and political dimension. Three lecture hours per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 463 Maritime Environmental Law (3 Credits)**

Maritime Environmental Law (3) This course is designed to familiarize students with the concepts and mechanisms of international and U.S. federal environmental law and policy. It presents the role of the American legal system as it functions to control and remediate maritime environmental problems and evaluates the opportunities to use judicial, administrative, and legislative processes to address those problems. Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 481 Sem In Int'L Maritime Business (3 Credits)**

Seminar in International Maritime Business (3) This course provides an opportunity for students and the instructor to discuss the effects of multinational operations on business strategy and decision making by exploring the economic, political, financial, legal, and social nature of the international environment. It examines maritime and transport related formulation, selection, and implementation of multi-national strategies in the context of business environment. Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 482 Advanced Transportation Mgmt (3 Credits)**

Advanced Transportation Management (3) This course presents perspectives on carrier organization and management. It examines national transportation policy, regulation, and the changing environment of transportation. Topics to be covered include transportation operations, marketing, financing, purchasing, information systems and maintenance, as well as human resources management and labor relations. Students enrolled in this course are required to involve in original research on problems in transportation management with emphasis on maritime transportation. Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 483 Maritime Studies SR. Seminar (3 Credits)**

Maritime Studies Senior Seminar (3) This course facilitates discussions between students, the instructor, and invited speakers to discuss topical themes related to diverse aspects of society and commerce in coastal and oceanic zones, the maritime experience, and the political, economical, cultural, and environmental perspectives of maritime management. Three hours of lecture per week. Pre-requisite: MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 490 Indep Study in Marit Transp (3 Credits)**

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud

**MTMS 495 Field Work Prac In Marit Trnsp (3 Credits)**

Field Work Practicum in Maritime Transportation (3) This course provides students with field work opportunities to gain hands-on experience in various maritime transportation related work. Students enrolled in this course are required to submit a written report of the practicum or project experience, detailing the specific tasks performed. Three hours of lecture per week. Pre-requisite : MTMS 101 with a grade of "C" or better.

**Prerequisite(s):** MTMS 101

**College/School:** Col of Science, Engr & Tech

**Department:** Dept of TransportStud