



GRADUATE COURSE DESCRIPTIONS

For Students Entering
Maritime College
During
2023-24 Academic Year

As of September 15, 2023

COURSE DESCRIPTIONS

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General Note on the Scheduling of Courses:

Course descriptions include semester(s) when course is regularly offered (assuming sufficient demand and resources). If no semester indicated, course is an elective offered at discretion of the department.

Definitions of Prerequisite and Corequisite Courses:

The description for a given course will sometimes contain reference to courses that are prerequisites or corequisites for that given course.

A *prerequisite* is defined as a course that ***must be completed*** with required minimum grade (passing grade, unless otherwise specified) ***prior to*** taking another course.

A *corequisite* is defined as a course that can either be ***completed prior to*** (as detailed above) ***or*** be ***taken in the same semester as*** another course. The published degree curricula and flow charts illustrate the preference for any given corequisite situation.

MARITIME AND NAVAL STUDIES

MNST 6001 Introduction to Academic Writing and Research Methods

1 class hour, 1 credit.

This course focuses on writing, research, critical, and other analytical skills necessary for graduate-level work in the Maritime and Naval Studies program. Students learn the appropriate form, style, and etiquette for academic writing, investigate library research tools, and become acquainted with software applications that support academic writing and research.

Prerequisite: Undergraduate writing or composition.

[Fall and Spring]

MNST 7101 American Commercial Maritime History: 1500 to Present

3 class hours, 3 credits.

This course examines the history and growth of American commercial shipping and its influence on foreign policy and economic development. The course also will examine how the American merchant marine industry helped shape the nation's emergence as a world power. Commercial shipping's role in the development of the American colonies, the effects of commercial shipping (including privateering) on the American Revolution and subsequent wars, relevant admiralty and salvage law, marine insurance, continued challenges faced by American shipbuilders and the critical role of organized labor in the American shipping industry will be examined.

Corequisite: MNST 6001.

[Spring]

MNST 7102 The History of American Sea Power

3 class hours, 3 credits.

A course exploring the major sea battles that have affected American history and culture, from 1500 to the present. The evolution and innovation of naval weapons, new types of warships and novel tactics of the opposing ships' commanders will be examined, as well as the military, commercial and diplomatic context that brought about each battle, and its effect on America's rise as a world power.

Corequisite: MNST 6001.

[Fall]

MNST 7103 American Sea Fiction and Maritime Culture

3 class hours, 3 credits.

This course examines American maritime culture and fiction from the invention of the American sea narrative to modernist experimentation. We will be reading some of the greatest writers in American literature including James Fenimore Cooper, Richard Henry Dana Jr., Herman Melville, Edgar Allan Poe, Frederick Douglass, Mark Twain, Kate Chopin, and Ernest Hemingway.

Corequisite: MNST 6001

MNST 7104 Maritime Digital Archives / Maritime Digital Humanities

3 class hours, 3 credits.

This course examines the intersection between Digital Scholarship and Maritime Studies. We will concentrate on the examination and evaluation of Digital Archives; consider other digital primary sources and platforms; and use Digital Scholarship tools in research and development for possible inclusion in the MNST Capstone Project. Our focus throughout the course will be on the lives and work of mariners from the 18th century to the modern merchant marine.

Corequisite: MNST 6001

MNST 8101 Music of the Sea

3 class hours, 3 credits.

Maritime music traditions exist in most of the world's cultures, and their meanings vary widely. In Music of the Sea we will investigate maritime music from North America, the Caribbean, Europe, and Asia. We will examine shantying traditions, maritime work songs, water legends, boatmen's, fishermen's, whalers' and sailors' songs, making connections across cultures in musical and lyric content.

Corequisite: MNST 6001.

MNST 8102 Ocean Politics and Law

3 class hours, 3 credits.

The course will investigate political, legal, economic, environmental and other issues related to the oceans. It will identify how the need for resources has motivated the formation of national and international organization policy. The course will also include the study of the law of the sea as well as case studies of particular flashpoints, such as disputes concerning straits, the continental shelf and fisheries management.

Corequisite: MNST 6001.

MNST 8103 The History of World Sea Power

3 class hours, 3 credits.

The rise of Greece and the dominance of Rome as major powers, the virtual control of world commerce by the British Navy in the 19th century, and the outcomes of the major wars of the 20th century have all pivoted on decisive military and naval battles. This course will explore military and political context as well as the ships, sailors, weapons, and tactics involved in the major sea battles that dramatically altered world history, from ancient times to the present.

Corequisite: MNST 6001.

MNST 8104 Maritime Shakespeare

3 class hours, 3 credits.

This course studies 6 plays of Shakespeare, emphasizing their reflection of and contributions to European and global cultural perceptions of the sea. Each play will be read alongside maritime cultural and literary theoretical models. Topics may include: Shakespeare's sources and influences; exploration literature; cartography; historicism and presentism; Atlantic Studies; Blue Cultural Studies; and, the New Thalassology.

Corequisite: MNST 6001.

MNST 8105 Literature of the Middle Passage

3 class hours, 3 credits.

Between the sixteenth and nineteenth centuries, eleven million Africans were enslaved and forced to cross the Atlantic Ocean. This course is an investigation of the cultural, commercial and literary history of that journey, which came to be known as the Middle Passage. Reading a wide range of works, we will think about the role of the archive in the study of history, and the limitations of evidence-based methods of historiography in the special case of the Middle Passage. In turning to literature as a legitimate source of historical knowledge, we will also ask how we know and what we cannot know.

Corequisite: MNST 6001.

MNST 8106 Maritime Piracy and Predation

3 Class Hours, 3 Credits

This course is an intensive study of the early modern pirates, privateers and wreckers of Western Europe; however, attention is also given to additional eras and similar struggles in the Middle East and Asia, allowing students to gain an understanding of a timeless, global phenomenon. An investigation into these archetypal outlaws and their practices (both in fact and in fiction) reveals central tensions in the economic, naval, political and ethical debates of the 16th, 17th and 18th centuries, and their influence on our own contemporary systems.

Corequisite: MNST 6001.

MNST 8107 Maritime and Naval Art

3 class hours, 3 credits

Engineers, admirals, traders, statesmen, and propagandists all make use of visual representations of ships, but for different reasons and in different ways. This course will consider how these motives intersect with the pictorial and graphic conventions of different major maritime cultures, surveying the history of marine and nautical art from ancient times up through the 20th century, concentrating chiefly on the modern period of global trade and conquest and the heyday of maritime art in the 17th-19th centuries.

Corequisite: MNST 6001

MNST 8109 The Last Great Hunt: Herman Melville, *Moby-Dick*, and American Culture

3 class hours, 3 credits.

This course concentrates on Herman Melville's place in the American literary canon and the impact of *Moby-Dick* on American culture from the Abstract Expressionists to pop music and science-fiction films. We will also be concerned with the genre of sea fiction, the American whaling industry, and Melville as a precursor to modernist and postmodernist experimentation. This is a multi-media examination of the greatest novel in American literature and how Melville's "last great hunt" changed the world.

Corequisite: MNST 6001.

MNST 8110 Introduction to the Issues and Challenges Particular to Maritime Museums

3 class hours, 3 credits

Maritime-focused museums in the 21st century are facing challenges that are very different from art-, science- or military history-focused museums in fundamental ways. This survey course introduces students to the history of maritime museums and especially to the unique challenges facing this specific type of museum, as well as some creative solutions to the predicaments that can develop when dealing with ships, water and preservation and exhibition of maritime artifacts. This course covers the debates and the philosophical dilemmas unique to maritime-focused museums in the 21st century. Students will be involved in actual case studies and work with museum staff on ongoing problems facing American maritime museums today.

Corequisite: MNST 6001.

MNST 8111 Environmental Humanities: Arks and Archives

3 class hours, 3 credits.

This course studies the intersection of Environmental Humanities, Archival Theory and Practice, and Digital Humanities. It foregrounds the challenges – pragmatic, aesthetic, and ethical – of deciding how and what can be saved in the face of climate change, ecological pressure, and sea level rise. Students will work with documents in both physical archives and digital collections.

Corequisite: MNST 6001.

MNST 8112 Maritime Monsters: What Lies Beneath?

3 class hours, 3 credits

While monsters in general have long held an important place in the human psyche, maritime monsters -- those creatures lurking in the deep -- pose a special threat and offer a distinct thrill. Submersed beneath the waters, these monsters are brought to the surface on maps, in literature, through artistic endeavor, and via scientific research. Sea monsters, figurative and literal can be read as, amongst other possibilities: etiological and enigmatic explanations; natural and anthropogenic dangers; internal and external fears. Thus, this course explores depictions of maritime monsters across a range of disciplines: cartography, history, art, literature, and science. It takes a broad approach to the study of maritime monsters, utilizing a wide array of theoretical frameworks to examine, analyze, and interpret their meaning(s).

Corequisite: MNST 6001.

MNST 8199-8299 Special Topics in Maritime and Naval Studies I-II

3 class hours, 3 credits.

Special topics and issues for qualified students interested in acquiring a broader knowledge of Maritime and Naval Studies.

Corequisite: MNST 6001.

MNST 8250 Government Transportation/Environmental Policy

3 class hours, 3 credits.

An introduction to the overall structure and design of environmental law in the United States and in the international community. Closer examination of specific cases, statutes and treaties affecting marine transportation, marine natural resources, pollution and development.

Consideration of environmental policy impact in a cross-cultural context is also examined.

Corequisite: MNST 6001 or TMGT 6001.

Cross-Listed as TMGT 8250

MNST 9100 Capstone

3 class hours, 3 credits.

The capstone course is required of all MNST students. Successful completion will require both appropriate contributions to the course activities and assignments and satisfactory completion of the capstone project. The capstone course activities and assignments will consist of discussion areas addressing topical issues in Maritime and Naval Studies; readings selected to introduce issues of professional preparation (including preparation for doctoral studies); and assignments designed to initiate the capstone project.

Prerequisites: MNST 6001 and two Core Courses from MNST 7101, MNST 7102, MNST 7103 and MNST 7104.

SHIPPING AND LOGISTICS

TMGT 6001 Orientation to Graduate Studies

1 class hour, 1 credit.

This course introduces new graduate students to the full range of academic, administrative, and social expectations of graduate students, and the environment in which they must meet those expectations. The course provides students with multiple opportunities to develop and improve their research, writing, and source citation proficiencies as well as their critical thinking, communication, and presentation skills.

[Fall and Spring]

TMGT 7060 Systems Analysis & Operations Research

3 class hours, 3 credits.

Exploration of quantitative and systems methods in business and transportation. Topics include problem solving, optimization—both linear and non-linear, network models, deterministic and probabilistic models, the systems life spiral, principles and practices for developing, managing and enhancing systems. Computers are an integral part of the course. Mathematics topics will be reviewed as necessary.

Corequisite: TMGT 6001.

[Fall and Spring]

TMGT 7100 Economics of International Trade

3 class hours, 3 credits.

A systematic analysis of the underlying determinants of international trade, including classical, Ricardian, neoclassical and current theories of international trade, commercial policy, and customs unions. Monetary topics include balance of payments; accounting and adjustment process; foreign exchange markets; and the role of the dollar in international trade and international finance.

Corequisite: TMGT 6001.

[Fall and Spring]

TMGT 7300 Transportation Management

3 class hours, 3 credits.

The study of upper level management and the decision making process within the context of the transportation firm. Case studies and computer simulations concerning internal operations and profitable responses to changing industry trends are studied.

Corequisite: TMGT 6001. *[Fall and Spring]*

TMGT 7400 Logistics within the Supply Chain

3 class hours, 3 credits.

This course focuses on and explicates the logistics channel of the supply chain. “Channels” are identifiable sets within a supply chain of interdependent business processes and activities that help to impart a distinct economic value or utility to the product as it moves through the supply chain or to the service as being provided. The purpose of the course is to prepare students to be logistic managers, to control efficiently the movement of goods, materials and other resources using processes that instill time and place utility in the moved product or the developing service, from beginning of supply chain (sourcing of raw materials) to its end (the ultimate destination of the delivered product or service).

Corequisite: TMGT 6001.

[Fall and Spring]

TMGT 7500 International Business & Transportation Law

3 class hours, 3 credits.

Introduction to the issues and problems that face the individual/company engaged in international transportation and business, while exploring the rights and duties of participants, and the legal and practical issues that arise in international business transactions.

Corequisite: TMGT 6001.

[Fall and Spring]

TMGT 7600 Shipping Economics

3 class hours, 3 credits.

Application of economic analysis to issues of major concern to shipping firms, and to the shipping industry as a whole. Topics covered include: analysis of the market structure of the shipping industry, the supply of shipping services, the costs to the firm, pricing shipping services, determination of freight rates, shipping and the balance of payments, government policies affecting shipping, subsidies, cabotage, and tariffs.

Corequisite: TMGT 6001.

[Fall and Spring]

Previously TMGT 8140

TMGT 7700 Ship Finance

3 class hours, 3 credits.

Application of financial tools to ship and fleet financing. Topics include: economic analysis of the sale and purchase, new building and second hand markets, sources of financing, bareboat and sale / leaseback arrangements, mortgage requirements, estimating profitability of charter party time and spot transactions, valuation of prospective purchases, evaluating shipping enterprises, among others.

Corequisite: TMGT 6001.

[Fall and Spring]

Previously TMGT 8230

TMGT 8110 Economics of Transportation

3 class hours, 3 credits.

Economic analysis of transportation decision-making. Topics include: demand, cost, analysis of rate determination, taxes and subsidies, government regulation and resource allocation, study of competitive and noncompetitive forces in a regulated and deregulated environment.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8120 Topics in Managerial Economics

3 class hours, 3 credits.

Application of quantitative methods to economic decision-making. Topics include: optimization techniques, demand theory; cost theory, econometric estimation, market structure, pricing practices, antitrust, capital budgeting, and forecasting.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8150 Transportation Benefit-Cost Analysis

3 class hours, 3 credits.

Techniques for the profitable evaluation of a project's merit and cost, whether in the public or private sector. These include business and asset acquisitions, transportation projects, proposed or existing government regulation, taxes, subsidies, grants, among others.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8210 Transportation Managerial Accounting

3 class hours, 3 credits.

Application of accounting principles to managerial decisions in various transportation modes, including vessels, air carriers and motor freight operations. Includes the treatment of revenue and expense; agency; branch and ship accounting; subsidy treatment; governmental uniform system of accounting and reporting; foreign exchange; and other financial aspects of international and domestic transportation. The role of computers in integrating the accounting systems with management, planning and operating information systems.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8250 Government Transportation/Environmental Policy

3 class hours, 3 credits.

An introduction to the overall structure and design of environmental law in the United States and in the international community. Closer examination of specific cases, statutes and treaties affecting marine transportation, marine natural resources, pollution and development.

Consideration of environmental policy impact in a cross-cultural context is also examined.

Corequisite: MNST 6001 or TMGT 6001.

Cross-Listed as MNST 8250

TMGT 8270 Ship Management

3 class hours, 3 credits.

This elective course is a study of the many functions performed by shore side management while operating merchant vessels. Topics include: the evolving role of the ship's manager, ship management agreements, crewing agencies, crewing problems and agreements, bunker procurement, quality and control, sale and purchase of vessels, demolition, vessel agencies, managing operating and running costs, voyage estimating, vessel maintenance issues, risk management, ISM compliance, classification societies, working within the regulatory environment, among others.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8280 Fleet Management

3 class hours, 3 credits.

A comprehensive analysis of the principles of fleet operations and maintenance to obtain a higher degree of productivity and cost effectiveness. The course includes: forecast fleet requirements, vehicle maintenance, vehicle operations, fleet economics, budget organization, safety and fleet security, energy efficiency, data processing, and labor relations.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8310 Port Development and Environmental Issues

3 class hours, 3 credits.

The transportation industry and ports are facing new challenges as a result of increased environmental regulations and enforcement, all of which affect intermodal transportation initiatives. International agreements, treaties and conventions have modified the way international and even domestic commerce and trade is conducted. The course will deal with domestic and international laws and regulations, which impact port operations. The course will also focus on new approaches and solutions to many of the environmental problems encountered in port operations and development.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8320 Port & Terminal Management

3 class hours, 3 credits.

This course consists of an inquiry into the basic concepts and principles of seaport management. It stresses U.S. public ports, while providing an insight into the port problems of developing nations. Included topics are: operations; organizational structure; powers; public policy; economics; planning; marketing; technology and regulation.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8330 Analysis of Integrated Ocean Transport

3 class hours, 3 credits.

Topics studied include: ocean routes, terminals, free ports, cargo handling & stowage, charter parties, theory of rate-making, rate practice and control, pools; agreements, economic aspects of selected ports, the relation of facility to its hinterland, costs of shipping through the facility, competitive position, labor costs and productivity, construction and rental costs, governmental agencies, port authorities and commissions.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8340 Dry & Wet Bulk Vessel Operations

3 class hours, 3 credits.

Analysis of dry bulk and tanker vessel operations in the tramp market from both the shore side and shipboard perspective. Discusses development in dry bulk and tanker markets, the supply and demand of vessels and evolving shipboard technology.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8360 Intermodal Freight Transportation

3 class hours, 3 credits.

Learn the basics of intermodal freight transportation, including documents and equipment, freight operations, intermodal information technology, and rules and laws that apply in this type of transportation. Students can also find answers to the questions of how intermodal freight transportation developed, what is happening today, and where it might be going in the future.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8370 Shipboard Operations for Shoreside Managers

3 class hours, 3 credits.

This specialized course is held at sea aboard a cruise ship. The student is introduced to shipboard operations, navigation, vessel safety, bridge watch standing, marine engineering and related topics. The student can expect to spend approximately one week at sea during the course and the balance of time in a traditional classroom environment.

Prerequisites: Any four core courses in TMGT 7000-7999.

[Summer]

TMGT 8390 Maritime Port Security

3 class hours, 3 credits.

Objective is to prepare the student to become aware of the new threats to the Maritime Industry and protect their assets of Ports, Terminals and Ships. To enable the student to prepare for a position as Company Security Officer or Port Facility Security Officer. Three certificates can be obtained with completion of this course. In compliance with international STCW requirements, there will be no D or D+ grades in this course.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8420 Ocean Marine Hull & Protection & Indemnity Insurance

3 class hours, 3 credits.

Ocean marine hull and protection and indemnity policies, clauses and interpretation are studied. Topics include: hull markets, total losses, averages, perils insured against, running down liabilities, sue and labor, general average, hull valuations, war risks, P and I clubs, covered risks, charterers' and bailees' legal liability, reinsurance, functions and problems of brokers, agents and underwriters, hull and P and I underwriting, among other topics.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8430 Ocean Marine Cargo Insurance & Loss Adjusting

3 class hours, 3 credits.

This course is designed to brokers, underwriters, claims handlers and insured's a better understanding of how to manage risk and how a claim meets the final test of coverage and loss adjustment. Topics include: major classes of cargo, policy interpretation, premiums, cargo valuation, packing handling and susceptibility to damage, perils insured against, general average/salvage, role of the adjuster, and more.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8440 Maritime Law

3 class hours, 3 credits.

The course seeks to satisfy the need to understand the general maritime principles needed by ship officers and ones working in the maritime industry ashore. American admiralty and maritime laws and practices as they apply to ship owners, seamen and ship officers, ship insurers and charterers will be discussed.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8450 Advanced Charter Parties I

3 class hours, 3 credits.

Topics include: ship brokerage and commissions, negotiating charter parties. Application of contract and agency law to charter parties, time charter party forms and clauses, payment of hire, off-hire clauses, overlap and under lap, withdrawal, speed and fuel oil consumption warranties, seaworthiness, bills of lading under charter parties, the Inter-Club Agreement, maritime liens and prohibition of liens, demise charter party terms, conditions, consequences, among others. A professional chartering certificate is issued upon successful completion of both TMGT 8450 & 8460.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8460 Advanced Charter Parties II

3 class hours, 3 credits.

Objectives include a detailed understanding of the practices and law governing voyage chartering of ocean going and other vessels, as well as ship brokering and dry and wet chartered vessel operations. A professional chartering certificate is issued upon successful completion of both TMGT 8450 & 8460.

Corequisites: TMGT 8450.

TMGT 8465 Advanced Topics in Shipping

3 class hours, 3 credits.

Provides a detailed examination of major issues of concern to shipping, export, import, seaport, risk management, and logistics students and executives. It examines the business of international shipping and trade from operational, regulatory, economic, policy, risk management and legal perspectives.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8470 Transportation Risk Management

3 class hours, 3 credits.

The overall objective for this course is to demonstrate professional competence in handling transportation risks. After successful completion of the course students should be able to identify and analyze transportation loss exposure, analyze different types of transport coverage, recommend appropriate insurance provisions and loss control measures in order to properly manage risk associated with marine transportation. Areas covered include marine terminal, freight forwarding, shipbuilding, and cargo risk management.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8480 Managing Across Cultures

3 class hours, 3 credits.

This course deals with the identifying and understanding the cultural issues that impact senior and middle management of a global transportation business. Alternative actions and implementation details rising from this understanding are discussed. Cultural Acumen for the Global Manager - Lessons from Project GLOBE, forms the basis for this class.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8491 The Terrorist Threat Today

3 class hours, 3 credits.

Understand typical terrorist mindsets and psychologies, their threat to U.S. interests and supply chains, as well as understanding the counter terrorist apparatus set up in the U.S. to deal with the terrorist threat.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8499 Special Topics in International Transportation Management I

3 class hours, 3 credits.

This course examines issues of current or emerging significance in international transportation management through the lens of contextual analysis. Clear identification of the issues, an assessment of their importance within the global context, and recommendations of resolution are important capabilities for the global executive. This course provides the opportunity to learn the essential and relevant underlying skills. An understanding of the socio political economic realities of the world, and the development of ethical, critical thinking and communication skills are features of this course.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8501 Principles of Supply Chain Management I

3 class hours, 3 credits.

Introduction into the concept of supply chain management, and focuses on the issues of integrating the channel functions of extended supply chains. The course explicates the major channels of the supply chain, delineates functional areas wherein products and services are transformed incrementally to final form as they move through the supply chain, surveys the major technologies in use today, and surveys both qualitative and quantitative managerial techniques.

Prerequisites: Any four core courses in TMGT 7000-7999.

[Fall]

TMGT 8502 Principles of Supply Chain Management II

3 class hours, 3 credits.

The management functions of planning, organizing, and controlling; explores the logic of collaboration in today's business environments, domestic and global; examines globalization issues deriving from cultural, economic, and political contexts, and examines and models the strategic planning hierarchy of vision, mission, strategic goals, and tactical objectives.

Prerequisites: TMGT 8501.

[Spring]

TMGT 8505 International Trade Management Internship

3 class hours, 3 credits.

The Internship in ITM will provide practical, hands on experience that will facilitate a student's segue into a professional position. There are many different career tacks possible in international transportation management; however, the main criterion for approving an internship is whether the work performed, mentoring given, and lessons learned can, in the judgment of the supervising faculty member and GBAT Department Chair, be applied directly to International Transportation Management. A successfully completed ITM internship will satisfy one of the program's 3-credit elective requirements. The internship may be either paid or unpaid, and credit is granted for both.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8510 Systems Design & Control

3 class hours, 3 credits.

This course examines the consequences of global markets, specifically, successful competition in an uneven cultural, economic, political and social playing fields that requires deriving cost efficiencies from constantly re-engineering extended supply chains. The best of the re-engineering takes a total cost analysis approach, viewing all parts of the supply chain as an integrated whole and leaving nothing in isolation. Students are introduced to the design and control techniques that derive from a systems approach.

Prerequisites: Any four core courses in TMGT 7000-7999.

[Spring]

TMGT 8520 Global Transportation and Supply Chain Security

3 class hours, 3 credits.

This course is an elective in the SCM emphasis in the Shipping and Logistics degree program. The course explores the applications of security within the global supply chain extending from the sourcing of raw materials to the ultimate destination of the product or service. Students will evaluate the multiple perspectives of security that impact the strategic, operational, tactical, personal, informational, and physical aspects of the supply chain and examine the interplay of security & efficiency in the business decision making construct. A project format allows for detailed analysis of the particulars of supply chain vulnerability and the formulation of plans to address the issues uncovered. Practical application of security concepts, clear and concise communication of possible mitigation strategies to decision makers will be highlighted.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8530 Information Management

3 class hours, 3 credits.

This course examines how information technology may help achieve current and future opportunities for business improvement in the maritime and related industries. Methods for analyzing a business leading to the discovery of opportunity are examined. Techniques for the application of technology to these opportunities and assessing the resulting benefits are used. Consideration is given to methods for managing the technology investment. Examples are worked using contemporary and emerging opportunities and technologies. A middle and upper level management perspective is taken. Guest speakers from the industry will be featured.

Prerequisites: Any four core courses in TMGT 7000-7999.

[Fall and Spring]

TMGT 8540 Maritime Physical and Cyber Security

3 class hours, 3 credits.

This course will present the graduate student with the opportunity to gain an in-depth and total understanding and overview of the various facets of the Maritime Cyber Security environment. This course approaches cyber issues from a variety of interdisciplinary perspectives. It also presents a convergence approach to cyber security that joins both physical and cyber security's holistic approaches to understanding the current threats of cyber security. It is jointly taught as an interdepartmental effort by the various departments within SUNY Maritime College. In addition to lectures by the various professors supervising the course, from time to time prominent experts in maritime and intermodal security, from both public and private sectors, will address the students on topical issues of the day, from this emerging threat space of maritime cyber security.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 8550 Maritime Physical and Cyber Security, Risk Management and Mitigation

3 class hours, 3 credits.

This course will present the graduate student with the opportunity to gain an in-depth understanding of the Maritime Cyber Security environment as it applies to Maritime Physical and Cyber Security, Risk Management and Mitigation Strategies. In addition to lectures, from time to time prominent experts in maritime and intermodal security, from both public and private sectors, will address the students on topical issues of the day, in this critical field of maritime cyber security. This course moves beyond understanding level to the more advanced stages of analyzation, evaluation and then active problem-solving exercises. This course unifies and continues the thread started in TMGT 8540.

Prerequisite: TMGT 8540.

TMGT 8599 Special Topics in International Transportation Management II

3 class hours, 3 credits.

Special topics for qualified students interested in acquiring a broader knowledge of topics and issues associated with international transportation management.

Prerequisites: Any four core courses in TMGT 7000-7999.

TMGT 9100 Capstone

3 class hours, 3 credits.

This course is the culmination of your program in Shipping and Logistics and is designed to draw upon the knowledge that you have acquired in all of the other courses that have preceded it. Students perform directed team research and make a presentation to faculty and outside evaluators.

Prerequisites: Completion of Core Courses, 25 TMGT Credits, 3.0 GPA.

TMGT 9201 Thesis I

3 class hours, 3 credits.

A graduate student works with a supervising faculty member as an alternative to a (3 credit) capstone course. The thesis is individual study and research, over two semesters, and is worth 6 credits.

Prerequisites: Completion of Core Courses.

TMGT 9202 Thesis II

3 class hours, 3 credits.

A graduate student works with a supervising faculty member as an alternative to a (3 credit) capstone course. The thesis is individual study and research, over two semesters, and is worth 6 credits.

Prerequisites: TMGT 9201

COURSES IN RESERVE

Courses not offered in the last five years may be offered in the future if a department determines a need for the course.

TMGT 8130 Economics of Ocean Transportation

3 class hours, 3 credits.

Topics include: transportation planning: vessel suitability: capital, operating and voyage costs. Development of financial models for comparing movements using cost per delivered unit of cargo. Examines movement planning and the valuation and acquisition of vessels.

Prerequisites: TMGT 7100, TMGT 7300, TMGT 7500.

Placed in Courses in Reserve

TMGT 8240 International Trade Transactions

3 class hours, 3 credits.

Contemporary trends in transportation industrial relations, the dilemmas, conflicts, and challenges associated with the employment relationship. Topics include: union organizations and structure; labor legislation, the theory of negotiation and strategic approaches to collective bargaining, and the limitations on the freedom to strike. An assessment of the unions' impact on wages, prices, profits, technological change, and management actions will be made.

Prerequisites: TMGT 7100, TMGT 7300, TMGT 7500.

Placed in Courses in Reserve

TMGT 8260 Industrial Relations in Transportation

3 class hours, 3 credits.

Contemporary trends in transportation industrial relations, the dilemmas, conflicts, and challenges associated with the employment relationship. Topics include: union organizations and structure; labor legislation, the theory of negotiation and strategic approaches to collective bargaining, and the limitations on the freedom to strike. An assessment of the unions' impact on wages, prices, profits, technological change, and management actions will be made.

Prerequisites: TMGT 7100, TMGT 7300, TMGT 7500.

Placed in Courses in Reserve

TMGT 8290 Transportation Planning

3 class hours, 3 credits.

Transportation systems are compared within the context of the shipper/carrier relationship. Distribution patterns are investigated in ocean, inland waterways, rail, trucking, air, and pipeline modes. Topics covered include: carrier organization and operation, competition and operation, competition and cooperation, intermodal transportation, ratemaking negotiations and practices, carrier liability and government regulations.

Prerequisites: TMGT 7100, TMGT 7300, TMGT 7500.

Placed in Courses in Reserve

TMGT 8350 Analysis of Air Transportation & Airports

3 class hours, 3 credits.

A comprehensive analysis and evaluation of air transportation and airport organization and practices. Consideration is given to the changes in management and marketing in international trade, as influenced by the progress of commercial air transportation. Special emphasis is placed on the relationship between the various components of the air transportation system, physical planning, the role of government in air transportation, environmental concerns, forecasting, economic aspects of selected airports, competitive position, construction and rental costs, and airport authorities and commissions.

Prerequisites: TMGT 7100, TMGT 7300, TMGT 7500.

Placed in Courses in Reserve

TMGT 8355 Selected Topics in International Aviation Transportation Management

3 class hours, 3 credits.

Covers changing, discrete aviation transportation issues in an "issue management" approach. Issues include privatization, aircraft technology, security, facilitation, technology applications. Students do a term paper and oral presentation on an issue they select.

Prerequisites: TMGT 7100, TMGT 7300, TMGT 7500.

Placed in Courses in Reserve

TMGT 8380 Bunker & Aviation Fuel Markets

3 class hours, 3 credits.

Topics include: marine fuel, lube and aviation fuel oil markets, contracting, pricing, hedging tools, quality issues, risk management; environmental concerns, role of brokers, among others.

Prerequisites: TMGT 7100, TMGT 7300, TMGT 7500.

Placed in Courses in Reserve

TMGT 8490 International Marketing

3 class hours, 3 credits.

Prerequisites: TMGT 7100, TMGT 7300, TMGT 7500.

Placed in Courses in Reserve

TMGT 8500 Business Ethics

3 class hours, 3 credits.

Prerequisites: TMGT 7100, TMGT 7300, TMGT 7500.

Placed in Courses in Reserve

COURSES DELETED FROM COURSE CATALOG

TMGT 7200 Management Information Systems in Transportation

3 class hours, 3 credits.

This course introduces the student of transportation and logistics to the theory and practice of how information systems align with and support freight transportation and logistics processes. Focus is placed on the strategic processes of operations control, decision support, and customer in multimodal environments. Process models for these environments are presented and discussed, as are the techniques for data collection and capture, processing, communication, and presentation. The ultimate objective of the course is to provide the student with a working development to deliver usable and effective information systems.

Corequisite: TMGT 6001.

Renumbered as TMGT 8530.

TMGT 8160 Systems Analysis & Operations Research

3 class hours, 3 credits.

Exploration of quantitative and systems methods in business and transportation. Topics include problem solving, optimization—both linear and non-linear, network models, deterministic and probabilistic models, the systems life spiral, principles and practices for developing, managing and enhancing systems. Computers are an integral part of the course. Mathematics topics will be reviewed as necessary.

Prerequisites: All TMGT 7000-level courses.

Renumbered as TMGT 7060.

TMGT 8220 Financial Decision Making in Transportation

3 class hours, 3 credits.

Topics include: required rate of return, capital assets, pricing models, capital budgeting techniques, and sources of long term capital.

Prerequisites: All TMGT 7000-level courses.

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TMGT 8310 Organizational Management

3 class hours, 3 credits.

This course concentrates on managerial strategy formulation, i.e., creation of goals, objectives and plans along with the organizational implementation factors of organizing, directing (motivating & leading), and controlling. The course also focuses on ethical decision making and organizational social responsibility. Students enrolled in this course will develop “strategizing and executing skills” that will enable them to provide competitive advantages, value and successful leadership to their respective organizations in the 21st century global economy.

Prerequisites: All TMGT 7000-level courses.

Replaced with TMGT 8310 Port Development and Environmental Issues

TMGT 9200 Thesis Seminar

3 class hours, 3 credits.

Each candidate will prepare a comprehensive thesis under the guidance of a faculty mentor. Required of all candidates for the Master of Science Degree who do not elect course 9100 (International Business Policy).

Prerequisites: Candidates must have at least 18 masters level credits completed with a minimum 3.0 GPA.

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