

Members present: James Herman (Chair), College of Veterinary Medicine and Biomedical Sciences; Bob Knight (Vice Chair), College of Agriculture and Life Sciences; Jon Jaspersen, Mays Business School; Dayna Rasco (for Chris Cherry), College of Education and Human Development; Sally Kallina (for Prasad Enjeti), College of Engineering; Christian Brannstrom, College of Geosciences; Andy Armstrong (for Steve Oberhelman), College of Liberal Arts; Rebecca Burns (for Brian Holland), College of Nursing; Jennifer Ross, School of Public Health; Tim Scott, College of Science; Victor Viser (for Melanie Moser), Texas A&M University at Galveston; Beth German (for Stephanie Graves), Texas A&M University Libraries.

Guests: Craig Coates, Department of Entomology; Yossef Elabd and Katherine Toback, Department of Chemical Engineering; John Keyser, Department of Computer Science and Engineering; Jake Williams, Department of Petroleum Engineering; Angela Allensworth and Angel Carrizales, Registrar's Office; Terry Gentry and Megan Teel, Department of Soil and Crop Sciences; Carolyn Sandoval, Center for Teaching Excellence.

The Undergraduate Curriculum Committee recommends approval of the following:

1. New Courses

CHEM 220. Physics and Chemistry of Inorganic Materials. (3-0). Credit 3. Structure, properties and function of materials developed from an atomistic and molecular perspective emphasizing quantum chemical descriptions; elements of solid-state chemistry and physics including bonding, crystal structure and symmetry, origin of electronic band structure, synthesis and characterization tools in materials chemistry; role of finite size effects. Prerequisite: PHYS 208 or CHEM 102. Cross-listed with MSEN 220.

CHEM 468. Materials Chemistry of Inorganic Materials. (3-0). Credit 3. Structure, bonding and reactivity of inorganic solids developed from a perspective emphasizing models of chemical bonding, symmetry and electronic structure; methods for characterizing extended periodic solids; descriptions of band structure and contrasts to molecular orbital theory; synthetic routes, quantum confinement and finite size effects of relevance to nanoscale materials. Prerequisites: CHEM 102; PHYS 208; junior or senior classification.

CHEN 456. Advanced Chemical Process Optimization I. (3-0). Credit 3. State-of-the-art optimization based techniques for process synthesis, process design and process operability; emphasis on mathematical modeling via mixed integer and continuous optimization formulations and application to heat integration problems; use modeling/optimization software systems. Prerequisite: Senior classification or approval of instructor.

ENTO 426. Methods in Vector-Borne Disease Ecology. (1-5). Credit 3. Methodological understanding of how vector-borne diseases are studied in the field and laboratory; hands-on exploration of the ecology disease systems in a one health framework; concepts of design, execution and presentation of research projects; outdoor field work and bio-safety level 2 laboratory. Prerequisites: Junior or senior classification and approval of instructor. Cross-listed with VIBS 426.

MKTG 336. Managing Business to Business Relationships. (3-0). Credit 3. Customer relationship management concepts and tools; sales technology; organizational buyer behavior; planning; channels; new products; performance management. Prerequisite: MKTG 335.

SCSC 406. Soil and Water Microbiology Laboratory. (0-2). Credit 1. Hands-on experience with current techniques for examining the types, numbers, activity and roles of soil and water microorganisms with specific application to the carbon, nitrogen and sulfur cycle; plant-microbial interactions; soil and water quality. Prerequisites: Concurrent enrollment in SCSC 405; junior or senior classification or approval of instructor.

SCSC 411. Biotechnology for Crop Improvement. (3-0). Credit 3. Use of biotechnology to improve agricultural, horticultural and forest crops; techniques and methods used and case studies where biotechnology has been used to alter traits such as pathogen resistance, protein or oil consumption, ripening, fertility and wood properties. Prerequisite: BIOL 111 or equivalent. Cross-listed with MEPS 411 and GENE 411.

SOCI 410. Reproduction, Birth and Power. (3-0). Credit 3. Examination of topics related to reproductive practices, experiences and ideologies and of the constructed and contested meanings surrounding womanhood, motherhood, sexuality, reproductive freedom and eugenics. Prerequisites: SOCI 205; junior or senior classification. Cross-listed with WGST 410.

VIBS 426. Methods in Vector-Borne Disease Ecology. (1-5). Credit 3. Methodological understanding of how vector-borne diseases are studied in the field and laboratory; hands-on exploration of the ecology disease systems in a one health framework; concepts of design, execution and presentation of research projects; outdoor field work and bio-safety level 2 laboratory. Prerequisites: Junior or senior classification and approval of instructor. Cross-listed with ENTO 426.

WGST 410. Reproduction, Birth and Power. (3-0). Credit 3. Examination of topics related to reproductive practices, experiences and ideologies and of the constructed and contested meanings surrounding womanhood, motherhood, sexuality, reproductive freedom and eugenics. Prerequisites: SOCI 205; junior or senior classification. Cross-listed with SOCI 410.

2. Change in Courses

College of Agriculture and Life Sciences

Department of Entomology, Department of Biochemistry & Biophysics, Department of Poultry Science and Department of Soil and Crop Sciences

ENTO 285, ENTO 485, FIVS 285, FIVS 485, BICH 291, BICH 491,

GENE 291, GENE 491, POSC 484, SCSC 485 – include zero credit hours

ATMO 326. Environmental Atmospheric Science

Lecture and lab contact hours, semester credit hours

From: (3-3). Credit 4.

To: (2-2). Credit 3.

Course description, prerequisites

From: Basic concepts of meteorology as needed in architectural and engineering fields; patterns of climatic elements and their application to practical problems in building and urban sciences; practical experience in use of instruments to measure microclimates of buildings as they relate to outside conditions and analysis of data.

To: Basic concepts of meteorology as needed in environmental sciences; patterns of meteorological and climatic elements and their relevance in terrestrial ecology and urban sciences; solar and wind energy physics; practical experience in use of instruments to measure micro-climates as they relate to meteorological conditions and analysis of data. Prerequisites: ATMO 201 or GEOG 203, or approval of instructor.

CSCE 312. Computer Organization.

Prerequisites

From: CSCE 221 with a grade of C or better; junior or senior classification or approval of instructor.

To: Concurrent enrollment in CSCE 221; junior or senior classification or approval of instructor.

CSCE 314. Programming Languages.

Prerequisites

From: CSCE 221 with grade of C or better; junior or senior classification or approval of instructor.

To: Concurrent enrollment in CSCE 221; junior or senior classification or approval of instructor.

CSCE 420. Artificial Intelligence.

Prerequisites

From: CSCE 315 or approval of instructor.

To: CSCE 221; junior or senior classification or approval of instructor.

CSCE 436. Computer-Human Interaction.

Prerequisites

From: CSCE 315 or approval of instructor.

To: Concurrent enrollment in CSCE 315 or approval of instructor.

CSCE 441. Computer Graphics.

Prerequisites

From: CSCE 315 or approval of instructor.

To: CSCE 221; junior or senior classification or approval of instructor.

CSCE 463. Networks and Distributed Processing.

Prerequisites

From: CSCE 315 or approval of instructor.

To: CSCE 313 or approval of instructor.

FINC 351. Investment Analysis.

Prerequisites

From: ACCT 327, or concurrent enrollment; FINC 341 with a grade of C or better; SCMT 303 or concurrent enrollment, or AP STAT 301 or AP STAT 302 or AP STAT 303.

To: ACCT 327 or concurrent enrollment; FINC 210; FINC 341 with a grade of C or better; SCMT 303 or concurrent enrollment, or AP STAT 301 or AP STAT 302 or AP STAT 303.

FINC 361. Managerial Finance I.

Prerequisites

From: ACCT 327, or concurrent enrollment; FINC 341 with a grade of C or better; SCMT 303 or concurrent enrollment, or AP STAT 301 or AP STAT 302 or AP STAT 303.

To: ACCT 327 or concurrent enrollment; FINC 210; FINC 341 with a grade of C or better; SCMT 303 or concurrent enrollment, or AP STAT 301 or AP STAT 302 or AP STAT 303.

MKTG 436. Sales Management.

Course title

From: Sales Management.

To: Sales Leadership.

Course description, prerequisites

From: Ethical planning, organizing, staffing, training, motivating and evaluating salespeople. Prerequisite: MKTG 321.

To: Ethical planning, organizing, staffing, training, motivating and evaluating salespeople; understanding the sales environment and organization as well as career and time management. Prerequisite: MKTG 335.

PETE 435. Technical Presentations II.

Prerequisites

From: PETE 335; satisfactory performance in junior student paper contest.

To: PETE 337.

PETE 437. Senior Student Paper Contest.

Prerequisites

From: PETE 337; Corequisite: PETE 435.

To: PETE 435.

SCSC 405. Soil and Water Microbiology.

Lab contact hours, semester credit hours

From: (3-2). Credit 4.

To: (3-0). Credit 3.

3. Change in Curriculum

Mays Business School

Department of Finance

BBA in Finance

4. Texas A&M University at Galveston

a. New Courses

MARS 456. Coastal Water Policy. (3-0). Credit 3. History, past and present legislation, the government entities and agencies molding the policies affecting coastal water policy in Texas. Prerequisite: Junior or senior classification or approval of instructor.

MART 208. Maritime Meteorology. (3-0). Credit 3. Weather and forecasting techniques used by merchant mariners to determine cloud formation, precipitation, visibility, atmospheric pressure, fronts, ocean currents, weather and voyage routing and ship maneuvering based upon ship's technology and reporting equipment; ocean passage planning. Prerequisite: MART 204 or concurrent enrollment or approval of department head.

b. Change in Courses

MARA 205. Introduction to Ships and Shipping.

Lab contact hours, semester credit hours

From: (3-2). Credit 4.

To: (3-0). Credit 3.

MART 103. Basic Safety and Lifeboatman Training.

Course description, prerequisites

From: (STCW Course). Introduction to the maritime industry, ship types, nomenclature, cargoes and recent trends in the maritime industry. Practical lifeboat and lifesaving training for certification as Lifeboatman by the U.S. Coast Guard.

To: (STCW). Introduction to lifesaving equipment and apparatus, personal survival techniques, personal social and environmental responsibility and introductory medical first aid and CPR; practical lifeboat and survival training for the U.S. Coast Guard certification as life boatman. Prerequisite: Admission to license option program.

MART 200. Basic Communications, Navigation and Seamanship.

Course title

From: Basic Communications, Navigation and Seamanship.

To: Deck Sea Training I: Basic Communications, Navigation and Seamanship.

Course description, prerequisites

From: (STCW Course). Practical application of student's classroom studies aboard training ship during first training cruise. Student completes basic projects in communications, navigation, seamanship and rules of the road. Prerequisites: MART 103, 201, 203, 204, or permission of MART department head.

To: (STCW). Practical application of shoreside studies aboard training ship during first training cruise; basic projects in communications, navigation, seamanship and rules of the road. Prerequisites: Admission to deck license option program; MART 103, MART 115, MART 201, MART 204, or concurrent enrollment, or approval of MART department head.

MART 201. Naval Architecture I.

Course title

From: Naval Architecture I.

To: Vessel Structure and Ship Knowledge.

Course description, prerequisites

From: (STCW Course). Description of ship as self-sustaining unit. Shipbuilding nomenclature and dimensions, types of construction, and classification of merchant ships. Classification societies, shipbuilding materials and methods, and structural components of ships. Prerequisite: MART 103 or approval of instructor.

To: (STCW). Introduction to ship nomenclature and design, types and methods of ship construction, admeasurement and typical outfitting of various types of commercial vessels; classification societies, shipbuilding materials and methods, structural components and appurtenances of vessels. Prerequisite: Admission to deck license option program.

MART 202. Naval Architecture II.

Course title

From: Naval Architecture II.

To: Ship Stability and Trim.

Course description, prerequisites

From: (STCW Course). Ship's lines drawing and form calculations; principles of flotation and buoyancy; inclining experiments, free liquids, transverse stability; motion of ships in waves, seaway and dynamic loads, ship structure tests. Prerequisite: MART 200 or NAUT 200, MART 201.

To: (STCW). Principles of flotation and buoyancy; inclining experiments; free surface; transverse and longitudinal stability; trim; motion of ship in waves and seaways; application of stability, trim and stress tables; effect of center of gravity on seaworthiness and stability; actions in event of partial loss of intact buoyancy; fundamentals of watertight integrity. Prerequisites: MART 200 or NAUT 200; MART 103, MART 115, MART 201, MART 204 or concurrent enrollment, or approval of MART department head.

MART 203. Seamanship I.

Course number

From: MART 203.

To: MART 115.

Course description, prerequisites

From: (STCW Course). Intermediate lifeboat, lifesaving and firefighting procedures. Practical use in lab of manila lines, wire, splicing, knots, block and tackle, cargo gear, anchoring, mooring, and steering gear operations. Introduction to the international rules of the road. Projects aboard merchant, research and offshore oil vessels in the ports of Galveston and Texas City. Prerequisite: MART 103 or concurrent registration.

To: (STCW). Theory and application of traditional seamanship, such as handling of natural fiber, synthetic and wire ropes, block and tackle and marlinespike; introduction to competencies of the deck department, including safe systems of work, inspections and maintenance, anchoring, mooring operations, ladder use, crane operations and duties of the lookout and quartermaster. Prerequisite: Admission to deck license option program.

MART 204. Terrestrial Navigation.

Prerequisites

From: Algebra and trigonometry recommended.

To: Admission to deck license option program; algebra and trigonometry recommended.

MART 205. Marine Surveying

Prerequisites

From: MART 202 and MART 203 (MART majors); or MARA 205 (MARA majors); or MARR 101 (MARR majors); or MARE 100 (MARR-NLO majors); or approval of instructor.

To: MART 115 and MART 202 (MART majors); or MARA 205 (MARA majors); or MARR 101 (MARR majors); or MARE 100 (MARR-NLO majors); or approval of instructor.

MART 300. Intermediate Communications, Navigation and Seamanship.

Course title

From: Intermediate Communications, Navigation and Seamanship.

To: Deck Sea Training II: Intermediate Communications, Navigation and Seamanship.

Course description, prerequisites

From: (STCW Course). Practical application of student's classroom studies aboard training ship during second training cruise. Student completes intermediate projects in communications, navigation, seamanship, and rules of the road. Thorough study made of U.S. Public Health requirements in first aid. Prerequisites: MART 200 or NAUT 200, MART 202, 301, 303, 306, 312, 321, METR 302. Junior or senior classification or approval of MART department head.

To: MART 200 or NAUT 200, MART 202, MART 210, MART 212, MART 215, MART 303, MART 321, or concurrent registration; junior or senior classification or approval of MART department head.

MART 301. Seamanship II.

Course number

From: MART 301.

To: MART 215.

Course description, prerequisites

From: (STCW Course). Mechanical appliances aboard ship, accident prevention, vessel sanitation, marine inspection laws and regulations, search and rescue procedures, communications. Prerequisites: MART 203 or concurrent registration or approval of instructor.

To: (STCW). Topics include mechanical appliances aboard ship, accident prevention, vessel sanitation, vessel operations, marine inspection laws and regulations, communications, ship's business and International Conventions. Prerequisites: MART 200 or NAUT 200; MART 103, MART 115, MART 201, MART 204, or concurrent enrollment or approval of department head.

MART 303. Celestial Navigation.

Prerequisites

From: Junior or Senior classification. MART 200 or NAUT 200, 204 or permission of MART department head.

To: MART 200 or NAUT 200; MART 103, MART 115, MART 201, MART 204, or concurrent enrollment or approval of MART department head.

MART 304. Electronic Navigation.

Course number

From: MART 304.

To: MART 310.

Course title

From: Electronic Navigation.

To: Integrated Navigation II: Electronic Navigation.

Course description, prerequisites

From: (STCW Course). Theory, operation and application of marine electronic navigation aids and systems; marine gyro compass, radio direction finder, Loran, Omega, Decca, satellite, echo sounder, Doppler and integrated navigation systems. Marine radar theory, operation and interpretation. Prerequisites: MART 200 or NAUT 200, 204, 303, 306, 321 or approval of instructor.

To: (STCW). Theory, operation and application of marine electronic navigation systems and aids; includes marine gyrocompass, vessel steering systems, hydrosonic systems, satellite navigation systems, AIS and VDR; intermediate level watchkeeping, including applied use of radar, ARPA and ECDIS. Prerequisites: MART 200 or NAUT 200; MART 204, MART 210, MART 303, MART 321 or concurrent enrollment or approval of MART department head.

MART 306. Radar/ARPA/ECDIS.

Course number

From: MART 306.

To: MART 210.

Course title

From: Radar/ARPA/ECDIS.

To: Integrated Navigation I: RADAR/ARPA/ECDIS.

Course description, prerequisites

From: (STCW Course). Introduction to the theory, operation and interpretation of marine radar and automatic radar plotting aids (ARPA) and Electronic Chart Display Systems (ECDIS). Student examined for U.S. Coast Guard Certification as "RADAR Observer" and for Standards of Training, Certification and Watchkeeping (STCW) Radar and ARPA endorsements. Minimum grade of 70% required for USCG and STCW endorsements. Prerequisites: Junior or Senior classification. MART 200 or NAUT 200, PHYS 202 or 208 or approval of instructor.

To: (STCW). Theory, operation and interpretation of marine radar and automatic radar plotting aids (ARPA) and Electronic Chart Display Systems (ECDIS); introductory level watchkeeping, including applied use of radar, ARPA and ECDIS; U.S. Coast Guard Certification as "RADAR Observer" and Standards of Training, Certification and Watchkeeping (STCW) Radar and ARPA endorsements. Prerequisites: MART 200 or NAUT 200; MART 103, MART 115, MART 201, MART 204, or concurrent enrollment or approval of department head.

MART 307. Global Maritime Distress Safety System.

Prerequisites

- From: Junior or Senior classification. MART 300 or 350 or NAUT 300, PHYS 202 or 208 or approval of instructor.
To: MART 200 or NAUT 200; MART 103, MART 115, MART 201, MART 204, or concurrent enrollment or approval of department head.

MART 308. Fast Rescue Craft.

Prerequisites

- From: MART 103, MART 303, MART 204, junior or senior classification or approval of instructor.
To: MART 200 or NAUT 200; MART 103, MART 115, MART 201, MART 204, or concurrent enrollment or approval of department head.

MART 309. Advanced Topics in Shipboard Operations.

Course number

- From: MART 309.
To: MART 403.

Course description, prerequisites

- From: Advanced concepts and techniques related to navigation and cargo watch responsibilities on container, dry and liquid bulk and gas tank vessels, focusing on professional licensing. Prerequisites: Junior or Senior classification. MART 300 or 350, or NAUT 300.
To: Advanced shipboard operations for the Third Mate, AGT, Oceans as a bridge watchstander or cargo officer on container vessels, bulk carriers, tankers or gas carriers; focus on all areas of concern to a watchstander. Prerequisites: MART 300 or MART 350 or NAUT 300 or concurrent enrollment or approval of department head.

MART 311. Tug and Towing Operations.

Course description, prerequisites

- From: Knowledge and theory associated with the safe and efficient operation of towing vessels, utilizing classroom discussion, on-board vessel training and vessel simulation; concepts of vessel construction, business operations and introduction to TOAR (Towing Operation Assessment Record) for U.S. Coast Guard. Prerequisites: MART 203, MART 301, MART 321, MART 306, junior or senior classification or approval of instructor.
To: Knowledge associated with the safe, efficient operation of towing vessels through classroom discussion and through underway, hands-on vessel training aboard the T/V Ranger and barges. Prerequisites: MART 300 or MART 350 or NAUT 300 or concurrent enrollment or approval of department head.

MART 312. Marine Cargo Operations I.

Course number

From: MART 312.
To: MART 212.

Course title

From: Marine Cargo Operations I.
To: Marine Dry Cargo Operations.

Course description, prerequisites

From: (STCW Course). Objectives and problems with break-bulk cargo handling during loading, discharging, and in-transit carriage. Requirements of special refrigerated and dangerous cargoes. Heavy lift operations. Cargo loss prevention, safety and related documentation, log book entries, modern cargo concepts—containerization, roll-on roll-off, and others. Maximum cargo efficiency with relation to space, cargo gear, crew and labor costs. Prerequisites: Junior or Senior classification. MART 200 or NAUT 200, 301 or concurrent registration or approval of instructor.

To: (STCW). Modern dry cargo principles associated with handling general cargo, bulk cargo, refrigerated cargo, dangerous cargo, containers, roll-on roll-off; cargo ventilation, securing of cargo, stability and trim, cargo gear stresses and heavy lift operations; documentation required for cargo operations, along with practical cargo stowage problems. Prerequisites: MART 200 or NAUT 200; MART 103, MART 115, MART 201, MART 204, or concurrent enrollment or approval of department head.

MART 321. Maritime Law I.

Course title

From: Maritime Law I.
To: Navigation Rules, International and Inland.

Course description, prerequisites

From: (STCW Course). Basic laws governing vessel navigation; International and U.S. Inland Rules for the prevention of collision at sea, and the safety of life at sea convention. Prerequisites: MART 200 or NAUT 200. Junior or senior classification.

To: (STCW). Purpose, application and knowledge of the International Regulations for Preventing Collision at Sea (COLREGS) and the Inland Navigation Rules and Regulations (Inland Rules). Prerequisites: MART 200 or NAUT 200; MART 103, MART 115, MART 201, MART 204, or concurrent enrollment or approval of department head.

MART 350. Commercial Cruise Internship.

Course title

From: Commercial Cruise Internship.
To: Deck Sea Training II – Commercial Internship.

Course description, prerequisites

From: (STCW Course). Practical application of student's classroom studies aboard an assigned merchant vessel during second training cruise. Student completes basic projects in communications, navigation, seamanship and rules of the road. Must be taken on a satisfactory/unsatisfactory basis. Prerequisites: MART 200 or NAUT 200, MART 202, 301, 303, 306, 312, 321, METR 302. Junior or senior classification or approval of MART department head.

To: (STCW). Practical application of shoreside studies aboard an assigned merchant vessel during second training cruise; intermediate projects in communications, navigation, seamanship, rules for the road and other subjects pertaining to the maritime industry. Must be taken on a satisfactory/unsatisfactory basis. Prerequisites: MART 200 or NAUT 200, MART 202, MART 210, MART 212, MART 215, MART 303, MART 321, or concurrent enrollment; junior or senior classification or approval of MART department head.

MART 400. Advanced Communications, Navigation and Seamanship.

Course title

From: Advanced Communications, Navigation and Seamanship.

To: Deck Sea Training III: Advanced Communications, Navigation and Seamanship.

Course description, prerequisites

From: (STCW Course). Practical application of student's classroom studies aboard training ship during third training cruise. Student completes advanced projects in communications, navigation, seamanship and rules of the road. Prerequisites: Junior or Senior classification. MART 300 or 350 or NAUT 300, or permission of MART department head.

To: (STCW). Practical application of shoreside studies aboard training ship during third training cruise; advanced projects in communications, navigation, seamanship and rules of the road. Prerequisites: MART 300 or 350 or NAUT 300, MART 307, MART 310, MART 313, or concurrent enrollment; junior or senior classification or approval of MART department head.

MART 401. Maritime Security.

Course description, prerequisites

From: Orientation of maritime security issues, duties and responsibilities based on U.S. Coast Guard and International Maritime Organization rules, regulations and recommendations for Vessel, Company and Port Facility Security Officer certification. Prerequisites: MART 300 or 350 or NAUT 300, MART 301, MARA 416, junior or senior classification or approval of instructor.

To: (STCW). Presentation and analysis of historical and current maritime security issues, leading to the understanding of, and proficiency in, security-related duties and responsibilities of licensed Deck Officers aboard ship and of maritime industry personnel ashore. Prerequisites: MART 300 or MART 350 or NAUT 300 or concurrent enrollment or approval of department head.

MART 404. The Navigator.

Course description, prerequisites

From: Intensive, in-depth review of the principles of electronic, celestial, and terrestrial navigation in preparation for the U.S. Coast Guard examination for Third Mate. Prerequisites: Junior or Senior classification. MART 300 or 350 or NAUT 300, or approval of instructor.

To: Intensive application all available means of navigation; including principles of electronic, terrestrial and celestial; demonstration of knowledge, understanding and proficiency in U.S. Coast Guard examination topics. Prerequisites: MART 300 or MART 350 or NAUT 300 or concurrent enrollment or approval of department head

MART 406. Marine Cargo Operations II.

Course number

From: MART 406.

To: MART 313.

Course title

From: Marine Cargo Operations II.

To: Marine Liquid Cargo Operations.

Course description, prerequisites

From: (STCW Course). Principles and practice of bulk liquid, gas handling, and carriage by water craft. Theoretical and practical problems involved in loading, stowing and discharging of petroleum, chemical, elevated temperature and cryogenic cargoes. Marine pollution abatement, personnel safety, and firefighting techniques and systems. Prerequisites: Junior or Senior classification. MART 200 or NAUT 200, or approval of instructor.

To: (STCW). Principles and practice of bulk liquid, gas handling and carriage by water craft; theoretical and practical problems involved in loading, stowing and discharging of petroleum, chemical, elevated temperature and cryogenic cargoes; marine pollution abatement, personnel safety and firefighting techniques and systems. Prerequisites: MART 200 or NAUT 200; MART 103, MART 115, MART 201, MART 204, or concurrent enrollment or approval of department head.

MART 407. Liquefied Gas Tankers.

Course number

From: MART 407.
To: MART 213.

Lab contact hours

From: (2-3). Credit 3.
To: (2-2). Credit 3.

Prerequisites

From: Junior or Senior classification; MART 300 or MART 350 or NAUT 300, NAUT 406, PHYS 201.
To: MART 200 or NAUT 200 or concurrent enrollment or approval of department head.

MART 410. Bridge Watchstanding.

Course title

From: Bridge Watchstanding.
To: Integrated Navigation III: Bridge Watchstanding.

Course description, prerequisites

From: (STCW Course). Integration of navigation, communications and seamanship in Bridge Resource Management (BRM) training required under the International Convention on the Standards for Training and Certification of Watchkeepers, using simulator-based teaching techniques. Prerequisites: MART 304, 306, 321, 400. Junior or senior classification or approval of instructor.
To: (STCW). Advanced level Bridge Watchkeeping; integration of navigation, communications and seamanship in Bridge Resource Management (BRM) training required under the International Convention on the Standards for Training and Certification of Watchkeepers, using simulator-based teaching techniques. Prerequisites: MART 300 or MART 350 or NAUT 300; MART 210, MART 310, MART 321 or concurrent enrollment or approval of MART department head.

MAST 425. Thesis and Technical Writing.

Prerequisites

From: Junior classification.
To: Junior or senior classification; ENGL 104 and ENGL 203 or ENGL 210.

5. Texas A&M University at Galveston

c. Change in Curriculum

Texas A&M University
Department of Marine Biology
BS in Marine Biology – License Option

Department of Marine Sciences
BS in Marine Sciences – License Option

Department of Marine Transportation
BS in Marine Transportation

Department of Maritime Administration
BS in Maritime Administration

BS in Maritime Administration and MMAL in Maritime Administration
and Logistics – 3+2 Program

6. Special Consideration

College of Agriculture and Life Sciences

Department of Soil and Crop Sciences
Minor in Plant Breeding
Request for a new minor

7. Other Business

Demo of the Curricular Approval Request System (CARS) and discussion; as of August 31st, no paper copies will be accepted; paper proposals sent for the September meeting will be handled as before; comments will be made to each form online except for those submitted by paper for August which will be added to spreadsheet; September's meeting will be a test using the new system.