

# MARINE TRANSPORTATION - BS

This program combines studies in the humanities and sciences with instruction and training in maritime disciplines to provide the U.S. Maritime Service Cadet with a broad-based education. The student who successfully completes the license program will be qualified to sit for the U.S. Coast Guard license examination as a Third Mate of any gross tonnage upon oceans, steam, or motor vessels and issuance of Standards of Training, Certification and Watchkeeping (STCW) credentials. Cadets are also provided with solid fundamentals in business topics related to the maritime industry, ashore and afloat. Cadets who enroll in and apply to graduate in Marine Transportation must successfully complete the license examination for Third Mate in order to graduate from Texas A&M University.

Courses earning USCG or STCW qualifications, sea-time remission or STCW competency certification require a minimum grade of C (70%). In addition, all STCW proficiencies must be satisfactorily completed with a grade of 70% or better (See applicable course outlines available through the department).

## Program Requirements

### First Year

		Semester Credit Hours
<b>Fall</b>		
MART 103	Basic Safety and Lifeboatman Training <sup>1,2</sup>	3
MART 115	Seamanship I <sup>1,2</sup>	3
	American History ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> )	3
	Communication ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication</a> )	3
	Life and physical sciences ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences</a> )	1
	Mathematics ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics</a> )	3
	<b>Semester Credit Hours</b>	<b>16</b>
<b>Spring</b>		
MART 201	Vessel Structure and Ship Knowledge <sup>1,2</sup>	3
MART 204	Terrestrial Navigation <sup>1,2</sup>	3
NVSC 200	Naval Science for the Merchant Marine Officer <sup>1,2</sup>	3
	American history ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> )	3
	Mathematics ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics</a> )	3
	<b>Semester Credit Hours</b>	<b>15</b>

### Summer

MART 200	Deck Sea Training I: Basic Communications, Navigation and Seamanship <sup>1,2</sup>	4
	<b>Semester Credit Hours</b>	<b>4</b>

### Second Year

#### Fall

ECON 203 or ECON 202	Principles of Economics or Principles of Economics	3
MART 212	Marine Dry Cargo Operations <sup>1,2</sup>	3
MART 215	Seamanship II <sup>1,2,3</sup>	3
MART 303	Celestial Navigation <sup>1,2</sup>	3
PHYS 201	College Physics	4
	<b>Semester Credit Hours</b>	<b>16</b>

#### Spring

MART 202	Ship Stability and Trim <sup>1,2</sup>	3
MART 210	Integrated Navigation I: RADAR/ARPA/ECDIS <sup>1,2</sup>	4
MART 321	Navigation Rules, International and Inland <sup>1,2</sup>	2
PHYS 202	College Physics	4
	Communication ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication</a> )	3
	<b>Semester Credit Hours</b>	<b>16</b>

### Summer

MART 300 or MART 350	Deck Sea Training II: Intermediate Communications, Navigation and Seamanship <sup>1,2</sup> or Deck Sea Training II – Commercial Internship	4
	<b>Semester Credit Hours</b>	<b>4</b>

### Third Year

#### Fall

MART 208	Maritime Meteorology <sup>1,2</sup>	3
MART 307	Global Maritime Distress Safety System <sup>1,2</sup>	3
MART 310	Integrated Navigation II: Electronic Navigation <sup>1,2</sup>	2
MART 315	Seamanship III <sup>1</sup>	2
POLS 206	American National Government	3
	Creative arts ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts</a> )	3
	<b>Semester Credit Hours</b>	<b>16</b>

#### Spring

MARA 301	Ocean Transportation I <sup>1</sup>	3
MART 313	Marine Liquid Cargo Operations <sup>1,2</sup>	3
MART 410	Integrated Navigation III: Bridge Watchstanding <sup>1,2,3</sup>	2
POLS 207	State and Local Government	3
	Language, philosophy and culture ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture</a> )	3
	<b>Semester Credit Hours</b>	<b>14</b>

**Summer**

MART 400	Deck Sea Training III: Advanced Communications, Navigation and Seamanship <sup>1,2</sup>	4
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<b>Semester Credit Hours</b>	<b>4</b>
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**Fourth Year****Fall**

MARA 416	Port Operations, Administration and Economics <sup>1</sup>	3
MART 403	Advanced Topics in Shipboard Operations <sup>1</sup>	2
MART 404	The Navigator <sup>1</sup>	2
MART 498	Maritime Medical Care <sup>1,2,5</sup>	2
Directed elective <sup>1,4</sup>		6

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<b>Semester Credit Hours</b>	<b>15</b>
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**Spring**

MARA 421	Admiralty Law <sup>1</sup>	3
MART 401	Maritime Security <sup>1,2</sup>	3
Directed elective <sup>1,4</sup>		6

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<b>Semester Credit Hours</b>	<b>12</b>
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<b>Total Semester Credit Hours</b>	<b>132</b>
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This degree requires full participation in the Texas A&M University Maritime Academy Corps of Cadets as a qualified License Option cadet. Refer to the University catalog section for the Texas A&M Maritime Academy for additional information. In addition to the academic requirements outlined here, the cadet must also complete the following requirements to receive the degree:

- Successfully complete required sea service and minimum training cruise requirements.
- Pass a comprehensive professional examination (either the Third Mate Unlimited- Oceans or Third Assistant Engineering Unlimited) administered by the U.S. Coast Guard (USCG).
- Successfully complete all competencies required by the International Convention on Standards for Training, Certification and Watchkeeping (STCW).

Note: STCW competency certifications expire 5 years after completion. If the cadet does not complete the degree within that time period, the cadet will be required to revalidate the expired competency prior to graduation.

<sup>1</sup> Indicates required courses in the Marine Transportation major. These courses will be used to compute the major GPA, which must be at least 2.25.

<sup>2</sup> Indicates license courses leading to a USCG/STCW license endorsement or sea time credit accrual which require a minimum grade of C (70%) or better to earn the endorsement or accrual. Students will be required to repeat the course until they earn a grade of C (70%) or better. MART 307 GMDSS requires a score of 75% or better.

<sup>3</sup> Indicates a course that satisfies the writing intensive course requirements of the university.

<sup>4</sup> Approved MART Directed Electives include but are not limited to ACCT 229; MARA 304, MARA 342, MARA 363, MARA 401, MARA 402, MARA 424, MARA 440, MARA 450; MART 205, MART 213, MART 308, MART 311, MART 485, MART 489.

<sup>5</sup> MART 498 must be taken within one year of graduation to receive USCG approval.

All electives must be chosen in consultation with, and approved by, the student's academic advisor. Unless courses are specifically listed, see University Core Curriculum for a listing of course options for Communication; Mathematics; Life and Physical Sciences; Language, Philosophy and Culture; Creative Arts; American History; Government and Political Sciences; and Social and Behavioral Sciences. The 6-hour University Core Curriculum requirement for International and Cultural Diversity may be met with courses used to satisfy other degree requirements.

MART students are required to earn a grade of C or better in all MART courses, including electives in field.

The total hours may be increased if the student is required to take remedial math, remedial English, foreign language or International and Cultural Diversity courses, or any of the six hour cruise options. The six hour cruise options (NAUT 200, NAUT 300 and NAUT 400 or MARR 200, MARR 300 and MARR 400) do not add any required hours to the degree plan.