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**Every Fall & Spring:**

ZOPT 100<sup>0</sup>  
CORPS

ZOPT 300<sup>0</sup>  
deck option

Key	Complete	Fall 2023	Possible Adjustment	<sup>15</sup> Semester Credit Hrs	<sup>3</sup> Course Credit Hrs	Major GPA	..... Pre-requisite	* Writing Intensive
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Year One	Fall	MARS 102 <sup>4</sup> Earth & Ocean Science	MATH 150 <sup>4</sup> Pre-Calculus or 148 or 152	ENGL 104 <sup>3</sup> Composition & Rhetoric	MART 103 <sup>3</sup> Basic Safety & Lifeboatman C or better	MART 115 <sup>3</sup> Seamanship I C or better	Hullaballoo U	<b>Summer</b> MART 200 <sup>4</sup> Deck Sea Training I C or better
	Spring	MARB 101 <sup>3</sup> Succeeding in Science	MATH 147 <sup>4</sup> Calc I for Bio Sci or MATH 151	MART 201 <sup>3</sup> Vessel Structure & Ship Knowledge C or better	Communication <sup>3</sup> Core Elective	MART 204 <sup>3</sup> Terrestrial Navigation C or better		Pre-reqs: MART 103, MART 115, MART 201, MART 204 Pre-req for: MART 210, MART 212, MART 215, MART 300, MART 303, MART 310, MART 313, MART 321

*Both in 1st year; either order*

Year Two	Fall	CHEM 119 <sup>4</sup> Fundamentals of Chemistry I	MARS 210 <sup>3</sup> Marine Geography	MART 303 <sup>3</sup> Celestial Navigation C or better	*MART 215 <sup>3</sup> Seamanship II C or better	*MARS 281 <sup>1</sup> Soph Seminar in Marine Sciences	MART 212 <sup>3</sup> Marine Dry Cargo Ops C or better	<b>Summer</b> MART 300 <sup>4</sup> or MART 350 <sup>4</sup> Deck Sea Training II C or better
	Spring	CHEM 120 <sup>4</sup> Fundamentals of Chemistry II	MART 210 <sup>4</sup> Integrated Nav I C or better	MART 321 <sup>2</sup> Nav Rules, Int'l & Inland C or better	MARS 303 <sup>3</sup> Computing & Data Display	MART 202 <sup>3</sup> Ship Stability & Trim C or better		Pre-reqs: MART 200, MART 202, MART 210, MART 212, MART 215, MART 303, MART 321 Pre-req for: MART 315, MART 400, MART 401, MART 403, MART 404, MART 410, MART 498

Year Three	Fall	NVSC 200 <sup>3</sup> Naval Science C or better	PHYS 201 <sup>4</sup> or 206/226 <sup>4</sup> College Physics I	History <sup>3</sup> Core Elective	MART 307 <sup>3</sup> Global Maritime Distress Safety 75% or better	POLS 206 <sup>3</sup> US Nat'l Govt	<b>Summer</b> MART 400 <sup>4</sup> Deck Sea Training III C or better	<b>Additional Req's:</b>
	Spring	*MARS 430 <sup>4</sup> Marine Geology	PHYS 202 <sup>4</sup> or 207/227 <sup>4</sup> College Physics II	MART 310 <sup>2</sup> Integrated Nav II C or better	MART 313 <sup>3</sup> Marine Liquid Cargo Ops C or better	Lang, Phil, Culture <sup>3</sup> Core Elective	Co-reqs: MART 300, MART 350, or NAUT 300; MART 307, MART 310, MART 313	Foreign Language Writing Intensive I Writing Intensive II

Year Four	Fall	*MARS 481 <sup>1</sup> Seminar	MARS 410 <sup>3</sup> Physical Oceanography	MARS 325 <sup>3</sup> Intro to GIS for Marine Sciences	MART 498 <sup>2</sup> Maritime Med Care C or better	MART 208 <sup>3</sup> Maritime Meteorology C or better	*MART 410 <sup>2</sup> Integrated Nav III C or better	International & Cultural Diversity
	Spring	MARS 420 <sup>3</sup> Biological Oceanography	MARS 440 <sup>3</sup> or 340 <sup>3</sup> Chemical Oceanography or Global Biogeochemical Cycles	*MARS 491 <sup>1</sup> Research in Marine Sciences	POLS 207 <sup>3</sup> State & Local Govt	History <sup>3</sup> Core Elective	Creative Arts <sup>3</sup> Core Elective	Cultural Discourse

# Marine Science - License Option | 2023-2024 Catalog | Major Guide

Notes:

Major	Texas A&M University at Galveston Course Options					
Major Coursework	MARB 101 MARS 410	MARS 102 MARS 430	MARS 281 MARS 430 OR 440	MARS 303	MARS 310 MARS 481	MARS 325 MARS 491
License Courses	^MART 103 ^MART 208 ^MART 303 ^MART 410	^MART 115 ^MART210 ^MART 307 ^MART 498	^MART 200 ^MART 212 ^MART 310 ^NVSC 200	^MART 201 ^MART 215 ^MART 313	^MART 202 ^MART 300 or 350 ^MART 321	^MART 204 ^MART 400
^ Requires C or better						

Core	Texas A&M University at Galveston Course Options					
Communication <sup>6</sup> <i>Both courses required</i>	Required: Select 1 from:	†ENGL 104 COMM 203	COMM 205	†ENGL 203	ENGL 210	
Mathematics <sup>8</sup>	MATH 147 or 151		MATH 148, 150, or 152			
Life & Physical Sciences <sup>16</sup> <i>All courses required</i>	CHEM 119	CHEM 120	PHYS 206 & 226	PHYS 207 & 227		
Language, Philosophy, Culture <sup>3</sup> <i>Select 1 course</i>	†ANTH 210 ENGL 335 HIST 242	ANTH 316 *ENGL 338 MAST 270	*ENGL 204 *ENGL 374 †PHIL 111	*ENGL 253 *GEOG 202 PHIL 251	ENGL 330 *GEOG 301	ENGL 334
Creative Arts <sup>3</sup> <i>Select 1 course</i>	*ARTS 150 †PERF 301	ENGL 212	*ENGL 251	HISP 204	*PERF 226	*PERF 281
Social & Behavioral Science <sup>3</sup>	*MARS 210					
American History <sup>6</sup> <i>Select 2 courses</i>	HIST 105	HIST 106	HIST 226	HIST 232		
Political Science <sup>6</sup>	POLS 206	POLS 207				

University	Texas A&M University at Galveston Course Options					
Writing Intensive <sup>6</sup>	MART 215	MARS 430 or MARS 281				
International and Cultural Diversity <sup>3</sup> <i>Select 1 course</i>	<i>Note that any * marked major or core course will concurrently fulfill both requirements</i>					
	*ARTS 150 *ENGL 374 MARA 440 *MART 400 SOCL 205	COMM 365 GEOG 201 MARE 400 MAST 411 SPMT 336	*ENGL 204 *GEOG 202 MARR 400 *PERF 226 SPMT 337	*ENGL 251 *GEOG 301 *MARS 210 *PERF 281	*ENGL 253 HIST 405 MARS 280 *NAUT 400	*ENGL 338 KINE 282 MARS 432 PBSI 107
	<i>Pending final approval</i>					
Cultural Discourse <sup>3</sup> <i>Select 1 course</i>	<i>Note that any † marked major or core course will concurrently fulfill both requirements</i>					
	†ANTH 210 MAST 340	†ENGL 104 †PERF 301	†ENGL 203 †PHIL 111	FSCI 334	MARA 373	MAST 226
General Electives	Free electives as needed to reach 120 cumulative hours					

- Courses in this section can concurrently fulfill a Core or Major Requirement;
- Two semesters of a single foreign language is required for students who did not complete the foreign language req in high school