

# MARINE TRANSPORTATION (BS)

## Degree Requirements and Curriculum

In addition to the program requirements listed on this page, students must also satisfy requirements outlined in more detail in the Minimum Requirements for Graduation (<https://catalog.calpoly.edu/academic-standards-policies/general-requirements-bachelors-degree/>) section of this catalog, including:

- 40 units of upper-division courses
- 2.0 GPA
- Graduation Writing Requirement (GWR)
- U.S. Cultural Pluralism (USCP)

Note: No Major, Support or Concentration courses may be selected as credit/no credit. In addition, no more than 12 units of cooperative or internship courses can count towards your degree requirements.

Code	Title	Units
<b>MAJOR COURSES</b>		
DL 1100	Small Craft Operations	1
DL 1105 & 1105L	Marine Survival and Marine Survival Laboratory	2
DL 1105X	United States Coast Guard Lifeboatman's Exam	0
DL 1110	Ship Operations I	1
DL 1115	Marlinspike	1
DL 1120	Cargo Operations	1
DL 2225 & 2225L	Radar/Arpa and RADAR/ARPA Laboratory	4
DL 2240 & 2240L	Global Maritime Distress Safety System (GMDSS) and Global Maritime Distress Safety System (GMDSS) Laboratory	3
DL 3301	Navigation Piloting Laboratory	1
DL 3305	Tug and Barge	1
DL 3310	Marine Supervisory Laboratory	1
DL 3311	Marine Management Laboratory	1
DL 3320	Introduction to Bridge Simulator	2
DL 4405 & 4405L	Shipboard Medical and Shipboard Medical Laboratory	2
DL 4410	Ship Handling	1
DL 4420	Watchstanding Simulation	2
NAU 1103	Marine Transportation	3
NAU 1104	Shipboard Security and Responsibility	1
NAU 1105	Ship Structure	2
NAU 1109	Industrial Equipment and Safety	2
NAU 1102 & 1102L	Navigation I and Navigation I Laboratory	4
NAU 1110	Seamanship	3
NAU 1120	Marine Engineering	3
NAU 2205	Ship Stability (2) <sup>1</sup>	3
NAU 2230	Rules of the Road	2
NAU 3300 & 3300L	Celestial Navigation and Celestial Navigation Laboratory	4
NAU 3302 & 3302L	Advanced Navigation and Advanced Navigation Laboratory	3
NAU 3320	Tank Vessel Operations	3
NAU 3325	Port and Cargo Operations	3
NAU 3330	Meteorology (Upper-Division 2/5) <sup>1</sup>	3

NAU 3335 & 3335L	Electronic Chart Display and Information Systems and Electronic Chart Display and Information Systems Laboratory	3
NAU 4410 & 4410L	License Seminar and License Seminar Laboratory	2
NAU 4415	Transportation Security	2
NAU 4435	Marine Transportation: People, Planet and the Profession	3
Approved Electives		
Select from the following:		6
NAU 3395	Special Topics	
NAU 4420	Maritime Casualty Seminar	
NAU 4430/NAU 4430L	Liquefied Gas Cargos	
NAU 4440	Dynamic Positioning Induction	
<b>SUPPORT COURSES</b>		
CRU 1100	Sea Training I - Deck	8
CRU 2200 & 2200L	Sea Training II - Deck and Sea Training II Lab (Deck)	8
CRU 3300	Sea Training III - Deck	8
ECO 1100	Macroeconomics (4B) <sup>1</sup>	3
EGL 1100	English Composition (1A) <sup>1</sup>	3
EGL 1110	Speech Communication (1C) <sup>1</sup>	3
EGL 2220	Critical Thinking (1B) <sup>1</sup>	3
ENG 1120L	Marine Engineering Laboratory	1
FF 1100	Basic Marine Firefighting	0
FF 3300	Advanced Marine Firefighting	0
GOV 2200	American Government (4A) <sup>1</sup>	3
MTH 1100	College Algebra and Trigonometry (2) <sup>1</sup>	4
LAW 3315	Admiralty Law (Upper-Division 4)	3
PE 1101	Swim Competency Exam <sup>2</sup>	0
PHY 1100 & 1100L	General Physics I and General Physics I Laboratory (5A & 5C) <sup>1</sup>	4
<b>GENERAL EDUCATION (GE)</b>		
(See GE program requirements below)		18
<b>FREE ELECTIVES</b>		
Free Electives		0
<b>Total Units</b>		<b>148</b>

<sup>1</sup> Required in Major or Support; also satisfies General Education (GE) requirement.

<sup>2</sup> Swim assessments are required of all cadets during Orientation week. If PE 1101 is not passed with a grade CR, then enrollment in PE 1102 will be required.

## General Education (GE) Requirements

### General Education (GE) Requirements

- 43 units required, 25 of which are specified in Major and/or Support.
- If any of the remaining 18 Units is used to satisfy a Major or Support requirement, additional units of Free Electives may be needed to complete the total units required for the degree.
- See the complete GE course listing (<https://catalog.calpoly.edu/academic-standards-policies/general-requirements-bachelors-degree/#generaleducationtext>).
- A grade of C- or better is required in one course in each of the following GE Areas: 1A (English Composition), 1B (Critical Thinking), 1C (Oral Communication), and 2 (Mathematics and Quantitative Reasoning).

#### Lower-Division General Education

Area 1	English Communication and Critical Thinking	
1A	Written Communication (3 units in Support) <sup>1</sup>	0
1B	Critical Thinking (3 units in Support) <sup>1</sup>	0

1C	Oral Communication (3 units in Support) <sup>1</sup>	0
<b>Area 2</b>	<b>Mathematics and Quantitative Reasoning</b>	
2	Mathematics and Quantitative Reasoning (3 units in Support) <sup>1</sup>	0
<b>Area 3</b>	<b>Arts and Humanities</b>	
3A	Arts	3
3B	Humanities: Literature, Philosophy, Languages other than English	3
<b>Area 4</b>	<b>Social and Behavioral Sciences (Area 4 courses must come from at least two different course prefixes.)</b>	
4A	American Institutions (Title 5, Section 40404 Requirement) (3 units in Support) <sup>1</sup>	0
4B	Social and Behavioral Sciences (3 units in Support) <sup>1</sup>	0
<b>Area 5</b>	<b>Physical and Life Sciences</b>	
5A	Physical Sciences (3 units in Support) <sup>1</sup>	0
5B	Life Sciences	3
5C	Laboratory (may be embedded in a 5A or 5B course) (1 units in Support) <sup>1</sup>	0
<b>Area 6</b>	<b>Ethnic Studies</b>	
6	Ethnic Studies	3
<b>Upper-Division General Education</b>		
Upper-Division 2/5	Mathematics and Quantitative Reasoning or Physical and Life Sciences (3 units in Support) <sup>1</sup>	0
Upper-Division 3	Arts and Humanities	3
Upper-Division 4	Social and Behavioral Sciences (Area 4 courses must come from at least two different course prefixes.)	3
<b>Total Units</b>		<b>18</b>

<sup>1</sup> Required in Major or Support; also satisfies General Education (GE) requirement.