Please inform the Registrar's Office if you choose an alternate option. Otherwise your Academic Advisement Report will be incorrect.

STUDENTS ENTERING IN 2021

8/23/21 MECHANICAL ENGINEERING MAJOR **Subject to Change**

U.S. COAST GUARD THIRD ASSISTANT ENGINEER LICENSE OPTION **DIVISIONS 3&4**

CURRICULUM ROADMAP

Total Units: 172

FILL 2021		CDDTMC 4044		CHARLED COLUMN AGAA	
FALL 2021 Arta Florina (Area Cl. Lawer Div)	2.0	SPRING 2022 DL 105 Marine Survival▶	1.0	SUMMER CRUISE 2022	9.0
Arts Elective (Area C1-Lower Div) CHE 110 General Chemistry (Area B1)	3.0 3.0	DL 105 Marine Survival ► DL 105L Marine Survival Lab ►	1.0 1.0	CRU 150 Sea Training I (Engine) ► EPO 220 Diesel Engineering I	8.0 2.0
CHE 110 General Chemistry (Area B1) CHE 110L General Chemistry Lab (Area B3)	1.0	DL 105X USCG Lifeboatman's Exam	0.0		Γotal 10.0
EGL 100 English Composition (Area A2) "G4"	3.0	EGL 220 Critical Thinking	3.0		10tai 10.0
ENG 110 Introduction to Engineering and Technology	1.0	Critical Thinking Elective (Area A3) "G4"	3.0		
ENG 112 Intro to Technical Communication \$	1.0	EPO 110 Plant Operations I	1.0		
(Area A14) "G4"	1.0	EPO 125 Introduction to Marine Engineering	3.0		
FF 100 Basic Marine Firefighting	0.0	EPO 125L Introduction to Marine Engineering Lab	1.0		
ME 220 Computer Aided Design	2.0	EPO 213 Welding Lab	1.0		
MTH 210 Calculus I (Area B4) "G4"	4.0	MTH 211 Calculus II (Area B4)	4.0		
PE 101 Swim Competency Exam	0.0	NAU 104 Shipboard Security and Responsibility	1.0		
1 7	Total 18.0	PHY 200 Engineering Physics I (Area B1)	3.0		
		PHY 200L Engineering Physics I Lab (Area B3)	1.0		
			Total 20.0		
FALL 2022		SPRING 2023		SUMMER CRUISE 2023	
ENG 210 Engineering Computer Programming	2.0	Humanities Elective (Area C2-Lower Div)	3.0	CRU 250 Sea Training II	8.0
EPO 210 Plant Operations II	1.0	ENG 250 Electrical Circuits and Electronics	3.0		Total 8.0
EPO 215 Manufacturing Processes I	1.0	ENG 250L Electrical Circuits and Electronics Lab	1.0		101111 010
ME 230 Engineering Materials *	3.0	EPO 214 Boilers	3.0		
ME 232 Engineering Statics	3.0	EPO 230 Steam Plant System Operations	1.0		
MTH 212 Calculus III (Area B4)	4.0	ME 240 Engineering Thermodynamics	3.0		
PHY 205 Engineering Physics II (Area B1)	4.0	ME 330 Engineering Dynamics♣	3.0		
	Total 18.0	MTH 215 Differential Equations (Area B4)	3.0		
		-	Total 20.0		
FALL 2023		SPRING 2024		SUMMER CRUISE 2024	
FALL 2023 Life Science Elective (Area B2)	3.0	SPRING 2024 Arts OR Humanities Elective (Area C-Lower Div)	3.0	SUMMER CRUISE 2024 CRU 350 Sea Training III (Engine)	8.0
Life Science Elective (Area B2)	3.0 1.0	Arts OR Humanities Elective (Area C-Lower Div)	3.0 1.0	SUMMER CRUISE 2024 CRU 350 Sea Training III (Engine)▶	8.0 Total 8.0
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management▶	1.0	Arts <u>OR</u> Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III▶	1.0		
Life Science Elective (Area B2)		Arts OR Humanities Elective (Area C-Lower Div)			
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator	1.0 3.0	Arts <u>OR</u> Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III EPO 343 Refrigeration & A/C ■ Arts OR Humanities Elective (Area C-Lower Div)	1.0 1.0		
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator	1.0 3.0 1.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III EPO 343 Refrigeration & A/C ME 344 Heat Transfer Arts OR Humanities Elective (Area C-Lower Div) Refrigeration & A/C ME 344 Heat Transfer	1.0 1.0 3.0		
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab ■	1.0 3.0 1.0 1.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III EPO 343 Refrigeration & A/C ME 344 Heat Transfer ME 392 Mechanical Design Arts OR Humanities Elective (Area C-Lower Div) Plant Operations III BY ARTS OR Humanities Elective (Area C-Lower Div) Plant Operations III BY ARTS OR Humanities Elective (Area C-Lower Div)	1.0 1.0 3.0 3.0		
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting	1.0 3.0 1.0 1.0 0.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III EPO 343 Refrigeration & A/C ME 344 Heat Transfer ME 392 Mechanical Design ME 429 Manufacturing Processes Lab	1.0 1.0 3.0 3.0 1.0		
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ■	1.0 3.0 1.0 1.0 0.0 3.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III ► EPO 343 Refrigeration & A/C ► ME 344 Heat Transfer ★ ME 392 Mechanical Design ★ ME 429 Manufacturing Processes Lab ★ ME 436 Mechatronic System Design ►	1.0 1.0 3.0 3.0 1.0 2.0		
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ■ Mechanics of Materials	1.0 3.0 1.0 1.0 0.0 3.0 3.0 2.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III ► EPO 343 Refrigeration & A/C ► ME 344 Heat Transfer ME 392 Mechanical Design ME 429 Manufacturing Processes Lab ME 436 Mechatronic System Design ME 436L Mechatronic System Design ME 436L Mechatronic System Design Lab ME 436L Mechatronic System Design Lab ME 436L Mechatronic System Design Lab	1.0 1.0 3.0 3.0 1.0 2.0 1.0 3.0		
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322LD Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems **Turbines**	1.0 3.0 1.0 1.0 0.0 3.0 3.0 2.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III▶ EPO 343 Refrigeration & A/C▶ ME 344 Heat Transfer ME 392 Mechanical Design ME 429 Manufacturing Processes Lab ME 436 Mechatronic System Design ME 436L Mechatronic System Design Lab ME 490 Engineering Design Process Arts OR Humanities Elective (Area C-Lower Div) Refrigeration III▶ Refrigeration & A/C▶ Mechanical Design Mechanical	1.0 1.0 3.0 3.0 1.0 2.0		Total 8.0
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Advanced Marine Firefighting Mechanics of Materials ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Lab ### Advanced Marine Firefighting ME 340 Engineering Fluid Mechanics ME 360L Instr. and Measurement Systems Lab	1.0 3.0 1.0 1.0 0.0 3.0 3.0 2.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III ► EPO 343 Refrigeration & A/C ► ME 344 Heat Transfer ★ ME 392 Mechanical Design ★ ME 429 Manufacturing Processes Lab ★ ME 436 Mechatronic System Design ► ME 436 Mechatronic System Design Lab ► ME 490 Engineering Design Process ★ (Area A1 ★) "G4"	1.0 1.0 3.0 3.0 1.0 2.0 1.0 3.0	THIRD ASSISTANT ENGINEER'S/OICEW I REQUIRED FOR GRADUATION	Total 8.0
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems FALL 2024	1.0 3.0 1.0 1.0 0.0 3.0 3.0 2.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III ► EPO 343 Refrigeration & A/C ► ME 344 Heat Transfer ★ ME 392 Mechanical Design ★ ME 429 Manufacturing Processes Lab ★ ME 436 Mechatronic System Design ► ME 436L Mechatronic System Design Lab ► ME 490 Engineering Design Process ★ (Area A1 ☆) "G4" SPRING 2025	1.0 1.0 3.0 3.0 1.0 2.0 1.0 3.0 Total 18.0	THIRD ASSISTANT ENGINEER'S/OICEW I REQUIRED FOR GRADUATION CSU Writing Proficiency Requirements may be	Total 8.0 LICENSE met by
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Advanced Marine Firefighting Mechanics of Materials ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Lab ### Advanced Marine Firefighting ME 340 Engineering Fluid Mechanics ME 360L Instr. and Measurement Systems Lab	1.0 3.0 1.0 0.0 3.0 3.0 2.0 1.0 Total 18.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III ► EPO 343 Refrigeration & A/C ► ME 344 Heat Transfer ★ ME 392 Mechanical Design ★ ME 429 Manufacturing Processes Lab ★ ME 436 Mechatronic System Design ► ME 436 Mechatronic System Design Lab ► ME 490 Engineering Design Process ★ (Area A1 ★) "G4"	1.0 1.0 3.0 3.0 1.0 2.0 1.0 3.0	THIRD ASSISTANT ENGINEER'S/OICEW I REQUIRED FOR GRADUATION CSU Writing Proficiency Requirements may be passing the Graduate Writing Exam (GWE) or	Total 8.0 LICENSE met by
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems FALL 2024 American Institutions I Elective (Area D-Lower Div) OR (Area F)	1.0 3.0 1.0 1.0 0.0 3.0 3.0 2.0 1.0 Total 18.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III ► EPO 343 Refrigeration & A/C ► ME 344 Heat Transfer ★ ME 392 Mechanical Design ★ ME 429 Manufacturing Processes Lab ★ ME 436 Mechatronic System Design ► ME 436L Mechatronic System Design Lab ► ME 490 Engineering Design Process ★ (Area A1 ☆) "G4" SPRING 2025 Arts/Humanities Upper Div Elective (Area C-Upper Div)	1.0 1.0 3.0 3.0 1.0 2.0 1.0 3.0 Total 18.0	THIRD ASSISTANT ENGINEER'S/OICEW I REQUIRED FOR GRADUATION CSU Writing Proficiency Requirements may be passing the Graduate Writing Exam (GWE) or EGL 300 Advanced Writing.	Total 8.0 LICENSE met by passing
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Lab FALL 2024 American Institutions I Elective (Area D-Lower Div) OR (Area F) Social Science Elective (Area D-Lower Div)	1.0 3.0 1.0 0.0 3.0 3.0 2.0 1.0 Total 18.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III ► EPO 343 Refrigeration & A/C ► ME 344 Heat Transfer ★ ME 429 Mechanical Design ★ ME 436 Mechatronic System Design ★ ME 436L Mechatronic System Design Lab ★ ME 490 Engineering Design Process ★ (Area A1 ★) "G4" SPRING 2025 Arts/Humanities Upper Div Elective (Area C-Upper Div) EGL 300 Advanced Writing ◆ ENG 310 Engineering Ethics (Area D-Upper Div)	1.0 1.0 3.0 3.0 1.0 2.0 1.0 3.0 Total 18.0	THIRD ASSISTANT ENGINEER'S/OICEW I REQUIRED FOR GRADUATION CSU Writing Proficiency Requirements may be passing the Graduate Writing Exam (GWE) or EGL 300 Advanced Writing. Meets CSU Graduate Writing Assessment Requirements Requirements May be passing the Graduate Writing Exam (GWE) or EGL 300 Advanced Writing.	Total 8.0 LICENSE met by passing
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Lab FALL 2024 American Institutions I Elective (Area D-Lower Div) OR (Area F) Social Science Elective (Area D-Lower Div) ENG 430 Naval Architecture ▶ ♣	1.0 3.0 1.0 0.0 3.0 3.0 2.0 1.0 Total 18.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III ► EPO 343 Refrigeration & A/C ► ME 344 Heat Transfer ★ ME 392 Mechanical Design ★ ME 429 Manufacturing Processes Lab ★ ME 436 Mechatronic System Design ► ME 436L Mechatronic System Design Lab ★ ME 436L Mechatronic System Design Process ★ (Area A1 ★) "G4" SPRING 2025 Arts/Humanities Upper Div Elective (Area C-Upper Div) EGL 300 Advanced Writing ◆ ENG 310 Engineering Ethics (Area D-Upper Div)	1.0 1.0 3.0 3.0 1.0 2.0 1.0 3.0 Total 18.0	THIRD ASSISTANT ENGINEER'S/OICEW I REQUIRED FOR GRADUATION CSU Writing Proficiency Requirements may be passing the Graduate Writing Exam (GWE) or EGL 300 Advanced Writing. Meets CSU Graduate Writing Assessment Requ (GWAR). (Must receive a "C-" or higher)	Total 8.0 LICENSE met by passing irement
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Lab FALL 2024 American Institutions I Elective (Area D-Lower Div) ENG 430 Naval Architecture ME 350 Electromechanical Machinery ME 350L Electromechanical Machinery ME 350L Electromechanical Machinery ME 350L Electromechanical Machinery ME 462 Experimental Methods in ME ■	1.0 3.0 1.0 0.0 3.0 3.0 2.0 1.0 Total 18.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III ► EPO 343 Refrigeration & A/C ► ME 344 Heat Transfer ★ ME 429 Mechanical Design ★ ME 436 Mechatronic System Design ★ ME 436L Mechatronic System Design Lab ★ ME 490 Engineering Design Process ★ (Area A1 ★) "G4" SPRING 2025 Arts/Humanities Upper Div Elective (Area C-Upper Div) EGL 300 Advanced Writing ◆ Engineering Ethics (Area D-Upper Div) EPO 217 Shipboard Medical ▶	1.0 1.0 3.0 3.0 1.0 2.0 1.0 3.0 Total 18.0	THIRD ASSISTANT ENGINEER'S/OICEW I REQUIRED FOR GRADUATION CSU Writing Proficiency Requirements may be passing the Graduate Writing Exam (GWE) or EGL 300 Advanced Writing. Meets CSU Graduate Writing Assessment Requ (GWAR). (Must receive a "C-" or higher) "G4" "Golden 4" Courses (Must receive a "C-" or	Total 8.0 LICENSE met by passing irement
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Lab FALL 2024 American Institutions I Elective (Area D-Lower Div) ENG 430 Naval Architecture ME 350 Electromechanical Machinery ME 350L Electromechanical Machinery Lab ### 462 Experimental Methods in ME (Area A1 ♠ "G4"	1.0 3.0 1.0 0.0 3.0 3.0 2.0 1.0 Total 18.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III ► EPO 343 Refrigeration & A/C ► ME 344 Heat Transfer ★ ME 392 Mechanical Design ★ ME 429 Manufacturing Processes Lab ★ ME 436 Mechatronic System Design ► ME 436 Mechatronic System Design Lab ► ME 436 Mechatronic System Design Process ★ (Area A1 ★) "G4" SPRING 2025 Arts/Humanities Upper Div Elective (Area C-Upper Div) EGL 300 Advanced Writing ◆ ENG 310 Engineering Ethics (Area D-Upper Div) EPO 217 Shipboard Medical ► GOV 200 American Government American Institutions II Elective (Area D-Lower Div) ME 460 Automatic Feedback Control ▶	1.0 1.0 3.0 3.0 1.0 2.0 1.0 3.0 Total 18.0 3.0 (3.0) 3.0 1.0 3.0 3.0	THIRD ASSISTANT ENGINEER'S/OICEW I REQUIRED FOR GRADUATION CSU Writing Proficiency Requirements may be passing the Graduate Writing Exam (GWE) or EGL 300 Advanced Writing. Meets CSU Graduate Writing Assessment Requ (GWAR). (Must receive a "C-" or higher) "G4" "Golden 4" Courses (Must receive a "C-" or GE Area A1 Sequence of Three Courses	Total 8.0 LICENSE met by passing irement higher)
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Lab FALL 2024 American Institutions I Elective (Area D-Lower Div) ENG 430 Naval Architecture ME 350 Electromechanical Machinery ME 350L Electromechanical Machinery ME 350L Electromechanical Machinery Lab ME 462 Experimental Methods in ME (Area Al ☆ "G4" ME 462L Experimental Methods in ME Lab ■	1.0 3.0 1.0 0.0 3.0 3.0 2.0 1.0 Total 18.0 3.0 3.0 3.0 3.0 1.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III ► EPO 343 Refrigeration & A/C ► ME 344 Heat Transfer ME 392 Mechanical Design ME 429 Manufacturing Processes Lab ME 436 Mechatronic System Design ME 436L Mechatronic System Design Lab ME 490 Engineering Design Process (Area A1 ♠) "G4" SPRING 2025 Arts/Humanities Upper Div Elective (Area C-Upper Div) EGL 300 Advanced Writing ENG 310 Engineering Ethics (Area D-Upper Div) EPO 217 Shipboard Medical GOV 200 American Government American Institutions II Elective (Area D-Lower Div) ME 460 Automatic Feedback Control ME 494 Project Design II ME 460 Area D-Lower Div) ME 460 Automatic Feedback Control ME 494 Project Design II ME 460 Area D-Lower Div)	1.0 1.0 3.0 3.0 1.0 2.0 1.0 3.0 Total 18.0 3.0 (3.0) 3.0 1.0 3.0 3.0 2.0	THIRD ASSISTANT ENGINEER'S/OICEW IN REQUIRED FOR GRADUATION CSU Writing Proficiency Requirements may be passing the Graduate Writing Exam (GWE) or EGL 300 Advanced Writing. ◆ Meets CSU Graduate Writing Assessment Requirements (GWAR). (Must receive a "C-" or higher) "G4" "Golden 4" Courses (Must receive a "C-" or GE Area A1 Sequence of Three Courses ► STCW Courses (Must receive a "C-" or higher,	Total 8.0 LICENSE met by passing irement higher)
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Lab FALL 2024 American Institutions I Elective (Area D-Lower Div) ENG 430 Naval Architecture ME 350 Electromechanical Machinery ME 350L Electromechanical Machinery ME 350L Electromechanical Machinery ME 350L Electromechanical Machinery ME 462L Experimental Methods in ME (Area A1 ☎) "G4" ME 462L Experimental Methods in ME Lab ME 492 Project Design I♣	1.0 3.0 1.0 0.0 3.0 3.0 2.0 1.0 Total 18.0 3.0 3.0 3.0 1.0 1.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III ► EPO 343 Refrigeration & A/C ► ME 344 Heat Transfer ★ ME 392 Mechanical Design ★ ME 429 Manufacturing Processes Lab ★ ME 436 Mechatronic System Design ► ME 436 Mechatronic System Design Lab ► ME 436 Mechatronic System Design Process ★ (Area A1 ★) "G4" SPRING 2025 Arts/Humanities Upper Div Elective (Area C-Upper Div) EGL 300 Advanced Writing ◆ ENG 310 Engineering Ethics (Area D-Upper Div) EPO 217 Shipboard Medical ► GOV 200 American Government American Institutions II Elective (Area D-Lower Div) ME 460 Automatic Feedback Control ▶	1.0 1.0 3.0 3.0 1.0 2.0 1.0 3.0 Total 18.0 3.0 (3.0) 3.0 1.0 3.0 1.0 3.0 1.0 3.0 1.0 3.0	THIRD ASSISTANT ENGINEER'S/OICEW I REQUIRED FOR GRADUATION CSU Writing Proficiency Requirements may be passing the Graduate Writing Exam (GWE) or EGL 300 Advanced Writing. Meets CSU Graduate Writing Assessment Requ (GWAR). (Must receive a "C-" or higher) "G4" "Golden 4" Courses (Must receive a "C-" or GE Area A1 Sequence of Three Courses	Total 8.0 LICENSE met by passing irement higher)
Life Science Elective (Area B2) EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 300 Advanced Marine Firefighting ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Lab FALL 2024 American Institutions I Elective (Area D-Lower Div) ENG 430 Naval Architecture ME 350 Electromechanical Machinery ME 350L Electromechanical Machinery ME 350L Electromechanical Machinery Lab ME 462 Experimental Methods in ME (Area Al ☆ "G4" ME 462L Experimental Methods in ME Lab ■	1.0 3.0 1.0 0.0 3.0 3.0 2.0 1.0 Total 18.0 3.0 3.0 3.0 3.0 1.0	Arts OR Humanities Elective (Area C-Lower Div) EPO 310 Plant Operations III ► EPO 343 Refrigeration & A/C ► ME 344 Heat Transfer ME 392 Mechanical Design ME 429 Manufacturing Processes Lab ME 436 Mechatronic System Design ME 436L Mechatronic System Design Lab ME 490 Engineering Design Process (Area A1 ♠) "G4" SPRING 2025 Arts/Humanities Upper Div Elective (Area C-Upper Div) EGL 300 Advanced Writing ENG 310 Engineering Ethics (Area D-Upper Div) EPO 217 Shipboard Medical GOV 200 American Government American Institutions II Elective (Area D-Lower Div) ME 460 Automatic Feedback Control ME 494 Project Design II ME 460 Area D-Lower Div) ME 460 Automatic Feedback Control ME 494 Project Design II ME 460 Area D-Lower Div)	1.0 1.0 3.0 3.0 1.0 2.0 1.0 3.0 Total 18.0 3.0 (3.0) 3.0 1.0 3.0 3.0 2.0	THIRD ASSISTANT ENGINEER'S/OICEW IN REQUIRED FOR GRADUATION CSU Writing Proficiency Requirements may be passing the Graduate Writing Exam (GWE) or EGL 300 Advanced Writing. ◆ Meets CSU Graduate Writing Assessment Requirements (GWAR). (Must receive a "C-" or higher) "G4" "Golden 4" Courses (Must receive a "C-" or GE Area A1 Sequence of Three Courses ► STCW Courses (Must receive a "C-" or higher,	Total 8.0 LICENSE met by passing irement higher)