## THIRD ASSISTANT ENGINEER'S LICENSE OPTION **DIVISIONS 1&2** CURRICULUM

## **Total Units: 162**

## THIRD ASSISTANT ENGINEER'S LICENSE COURSES ARE BOLDED. ADDITIONAL UNITS MUST BE ADDED TO TOTAL FOR EACH SEMESTER.

FALL 2019		SPRING 2020		SUMMER CRUISE 2020	
CHE 110 General Chemistry (Area B1)	3.0		3.		8.0
CHE 110L General Chemistry Lab (Area B3)	1.0	DL 105 Marine Survival►	1.	.0 EPO 220 Diesel Engineering I	2.0
EGL 100 English Composition (Area A2) "G4"	3.0	DL 105L Marine Survival Lab►	1.	.0	Total 10.0
EGL 120 Technical Communication (Área A1) "G4"	3.0	DL 105X USCG Lifeboatman's Exam	0.	.0	
ENG 110 Introduction to Engineering and Technology	1.0	EGL 220 Critical Thinking	3.	.0	
EPO 110 Plant Operations I	1.0				
EPO 125 Introduction to Marine Engineering	3.0		0.	.0	
EPO 213 Welding Lab	1.0		4		
MTH 210 Calculus I (Area B4) "G4"	4.0		1.		
PE 101 Swim Competency Exam	0.0		3.		
PE 102 Beginning/Intermediate Swimming	(0.5		1.		
1 E 102 Beginning internetiate Swimming	Total 20.0		Total 17		
	10tai 20.0		10(a) 17.	.0	
FALL 2020		<u>SPRING 2021</u>		SUMMER CRUISE 2021	
ENG 210 Engineering Computer Programming	2.0	ENG 250 Electrical Circuits and Electronics ► ♣	3.		8.0
EPO 210 Plant Operations II	1.0		1	Ũ	Total 8.0
EPO 215 Manufacturing Processes I	1.0		3.		
ME 220 Computer Aided Engineering ►	2.0		1		
ME 230 Engineering Materials#	3.0		3		
ME 232 Engineering Statics	3.0		3.		
MTH 212 Calculus III (Area B4)	4.0		3.		
PHY 205 Engineering Physics II (Area B1)	4.0		4.		
1111 205 Englicering Physics II (Area D1)	Total 19.0	1 ( )	Total 17.		
FALL 2021	10tai 19.0	SPRING 2022	10tai 17.	SUMMER CRUISE 2022	
Life Science Elective (Area B2)	3.0		(3.		8.0
<b>EPO 235</b> Steam Plant Watch Team Management	1.0	8	(3.		Total 8.0
EPO 312 Turbines	3.0		1.		10tai 0.0
EPO 322 Diesel Engineering II/Simulator		8	2		
	1.0				
EPO 322L Diesel Engineering II/Simulator Lab	1.0		3.		
ME 340 Engineering Fluid Mechanics	3.0		3.		ON
ME 350 Electromechanical Machinery	3.0		2.		
ME 350L Electromechanical Machinery Lab	1.0		1.		be met by passing
ME 360 Instrumentation and Measurement Systems	2.0		3.	the Creducte Writing Even or passing FC	
ME 360L Instr. and Measurement Systems Lab*	1.0	( )-	3.	.U Writing	
	Total 13.0		Total 17.	.0 (Virtung.	
FALL 2022		SPRING 2023		"G4" "Golden 4" Courses (Must receive a "C-	" or higher)
<u>FALL 2022</u> American Institutions I Elective (Area D-Lower Div)	2.0		2		
	3.0		3.		
Social Science Elective (Area D-Lower Div)	3.0				
ENG 430 Naval Architecture	3.0		1.		
ME 349 Fluid/Thermal Lab*	2.0		3.	0 <u>STEM COURSES</u>	
ME 394 Fluid/Thermal Design	3.0				
ME 492 Project Design I	2.0		1.		
ME 492L Project Design I Lab	1.0		2.		
STEM 2 Stem Course (See Box)	3.0		1.	2 ME 12 Heating, Ventilation and 15 C Design	
	Total 17.0	STEM 3 Stem Course (See Box)	3.	J - MIL TTT LINCIGY SYSTEMS Design (Spring 2023	) <b>*</b>
			Total 16	.0	
				Mechanical Design Stem	
				1  ME 42(M + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +	2022) <b>*</b>

1 - ME 436 Mechatronic System Design (Spring 2022)#
2 - ME 430 Mechanical Vibrations (Fall 2022)#
3 - ME 432 Machinery Design (Spring 2023)#