## CLASS OF 2015 MARINE ENGINEERING TECHNOLOGY MAJOR DIVISIONS 3&4 CURRICULUM

REVISED 5/14/13
Subject to Change

**Total Units: 161** 

## Third Assistant Engineer's/OICEW License Required For Graduation

Writing Proficiency Requirement: All Junior students must demonstrate upper division writing competency as a graduation requirement. This may be fulfilled by passing either the Graduation Writing Exam or EGL 300 Advanced Writing.

FALL 2011		<u>SPRING 2012</u>		SPRING CRUISE 2012	
CHE 100 Chemistry I	3.0	DL 105 Marine Survival▶	1.0	CRU 150 Sea Training I▶	8.0
CHE 100LChemistry I Lab	1.0	DL 105L Marine Survival Lab▶	1.0	EPO 220 Diesel Engineering I#	2.0
ENG 100 Engineering Graphics▶	2.0	DL 105X USCG Lifeboatman's Exam	0.0		<b>Total 10.0</b>
EPO 110 Plant Operations I▶	1.0	EGL 100 English Composition	3.0		
EPO 125 Introduction to Marine Engineering	3.0	ELEC 8 American Institutions Elective	3.0		
EPO 213 Welding Lab▶	1.0	ELEC 21 Humanities Elective (Lower Division)	3.0		
ET 110 Introduction to Engineering Technology*	1.0	LIB 100 Information Fluency in the Digital World	2.0		
MTH 100 College Algebra and Trigonometry	4.0	MTH 210 Calculus I	4.0		
PE 100 Beginning/Intermediate Swimming	(.5)		<b>Total 17.0</b>		
	<b>Total 16.0</b>				
FALL 2012		SPRING 2013		SPRING CRUISE 2013	
COM 220 Programming Applications for Engr. Tech Majors	1.0	EGL 110 Speech Communication	3.0	CRU 250 Sea Training II	8.0
COM 220L Programming Applications for Engr. Tech Majors Lab	1.0	EPO 235 Steam Plant Watch Team Management►*	1.0	Cite 250 Sea Training II	Total 8.0
ELEC 20 Critical Thinking Elective	3.0	EPO 312 Turbines	3.0		10141 0.0
EPO 210 Plant Operations II	1.0	ET 230 Properties of Materials	2.0		
EPO 214 Boilers	3.0	ET 232 Statics	3.0		
EPO 215 Manufacturing Processes I	1.0	NSC 100 Naval Science for the MMO	3.0		
EPO 230 Steam Plant System Operations ▶★	1.0	PHY 205 Engineering Physics II	4.0		
MTH 211 Calculus II	4.0	1111 205 Engineering Physics II	Total 19.0		
PHY 200 Engineering Physics I	3.0		10001 17.0		
PHY 200L Engineering Physics I Lab	1.0				
1111 Zood Engineering Titysies Teab	Total 19.0				
	TOTAL 19.0				
FALL 2013	10tai 19.0	SPRING 2014		SPRING CRUISE 2014	
FALL 2013 ELEC 22 Humanities Elective (Upper Division)		SPRING 2014 EGL 300 Advanced Writing	(3.0)	SPRING CRUISE 2014 CRU 350 Sea Training III▶	8.0
ELEC 22 Humanities Elective (Upper Division)	3.0 1.0	EGL 300 Advanced Writing	(3.0) 1.0	SPRING CRUISE 2014 CRU 350 Sea Training III▶	8.0 <b>Total 8.0</b>
ELEC 22 Humanities Elective (Upper Division)	3.0 1.0	EGL 300 Advanced Writing EPO 310 Plant Operations III▶			
ELEC 22 Humanities Elective (Upper Division) ET 230L Properties of Materials Lab*	3.0	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II	1.0		
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits	3.0 1.0 3.0	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II EPO 322 Diesel Engineering II/Simulator  **Tender of the process	1.0 1.0		
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ♣	3.0 1.0 3.0 1.0	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II	1.0 1.0 1.0		
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 330 Bynamics	3.0 1.0 3.0 1.0 3.0	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab▶  ET 340 Fluid Mechanics  ####	1.0 1.0 1.0 1.0		
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  #	3.0 1.0 3.0 1.0 3.0 3.0	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab▶ ET 340 Fluid Mechanics ET 340L Fluid Mechanics Lab  ### Table 1909 Plant Processes II  EPO 322L Diesel Engineering II/Simulator Lab▶ ### Table 1909 Plant Plant Processes II  EPO 322L Diesel Engineering II/Simulator Lab▶ ### Table 1909 Plant Pl	1.0 1.0 1.0 1.0 3.0		
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  #	3.0 1.0 3.0 1.0 3.0 3.0 3.0	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab▶ ET 340 Fluid Mechanics ET 340L Fluid Mechanics Lab ET 342 Refrigeration and Air Conditioning	1.0 1.0 1.0 1.0 3.0 1.0		
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  #	3.0 1.0 3.0 1.0 3.0 3.0 3.0	EGL 300 Advanced Writing  EPO 310 Plant Operations III▶  EPO 315 Manufacturing Processes II  EPO 322 Diesel Engineering II/Simulator  EPO 322L Diesel Engineering II/Simulator Lab▶  ET 340 Fluid Mechanics  ET 340L Fluid Mechanics Lab  ET 342 Refrigeration and Air Conditioning  ET 342L Refrigeration and Air Conditioning Lab▶  #	1.0 1.0 1.0 1.0 3.0 1.0 2.0		
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  #	3.0 1.0 3.0 1.0 3.0 3.0 3.0	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab▶ ET 340 Fluid Mechanics ET 340L Fluid Mechanics Lab ET 342 Refrigeration and Air Conditioning ET 342L Refrigeration and Air Conditioning Lab▶  ### Total Conditioning Lab	1.0 1.0 1.0 1.0 3.0 1.0 2.0		
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  #	3.0 1.0 3.0 1.0 3.0 3.0 3.0	EGL 300 Advanced Writing  EPO 310 Plant Operations III▶  EPO 315 Manufacturing Processes II  EPO 322 Diesel Engineering II/Simulator  EPO 322L Diesel Engineering II/Simulator Lab▶  ET 340 Fluid Mechanics  ET 340L Fluid Mechanics Lab  ET 342 Refrigeration and Air Conditioning  ET 342L Refrigeration and Air Conditioning Lab▶  ET 370 Electronics▶	1.0 1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0		
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  #	3.0 1.0 3.0 1.0 3.0 3.0 3.0	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II EPO 322 Diesel Engineering II/Simulator♣ EPO 322L Diesel Engineering II/Simulator♣ ET 340 Fluid Mechanics♣ ET 340L Fluid Mechanics♣ ET 342 Refrigeration and Air Conditioning♣ ET 342L Refrigeration and Air Conditioning Lab▶♠ ET 370 Electronics▶♠ ET 370L Electronics Lab♣	1.0 1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0		
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  #	3.0 1.0 3.0 1.0 3.0 3.0 3.0	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II EPO 322 Diesel Engineering II/Simulator♣ EPO 322L Diesel Engineering II/Simulator♣ ET 340 Fluid Mechanics♣ ET 340L Fluid Mechanics♣ ET 342 Refrigeration and Air Conditioning♣ ET 342L Refrigeration and Air Conditioning Lab▶♠ ET 370 Electronics▶♠ ET 370L Electronics Lab♣	1.0 1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0		
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  ET 344 Thermodynamics	3.0 1.0 3.0 1.0 3.0 3.0 3.0	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II EPO 322 Diesel Engineering II/Simulator♣ EPO 322L Diesel Engineering II/Simulator♣ ET 340 Fluid Mechanics♣ ET 340L Fluid Mechanics♣ ET 342L Refrigeration and Air Conditioning♣ ET 342L Refrigeration and Air Conditioning♣ ET 370L Electronics▶♠ ET 370L Electronics▶♠ ET 370L Bectronics Lab♣ FF 200 Basic/Advanced Marine Firefighting▶  SPRING 2015 ELEC 32 Social Science Elective (Upper Division)	1.0 1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0		
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  ET 344 Thermodynamics  FALL 2014  ELEC 9 American Institutions Elective  ENG 430 Naval Architecture  #	3.0 1.0 3.0 1.0 3.0 3.0 3.0 <b>Total 17.0</b>	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II EPO 322 Diesel Engineering II/Simulator♣ EPO 322L Diesel Engineering II/Simulator♣ ET 340 Fluid Mechanics♣ ET 340L Fluid Mechanics♣ ET 342L Refrigeration and Air Conditioning♣ ET 342L Refrigeration and Air Conditioning♣ ET 370L Electronics▶♣ ET 370L Electronics▶♣ ET 370L Beactronics▶♣ ET 370L Sections Lab♣ FF 200 Basic/Advanced Marine Firefighting▶  SPRING 2015 ELEC 32 Social Science Elective (Upper Division) EPO 217 Shipboard Medical▶	1.0 1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 0.0 Total 15.0		Total 8.0
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  ET 344 Thermodynamics  FALL 2014  ELEC 9 American Institutions Elective  ENG 430 Naval Architecture  ENG 470 Engineering Management	3.0 1.0 3.0 1.0 3.0 3.0 3.0 <b>Total 17.0</b>	EGL 300 Advanced Writing  EPO 310 Plant Operations III▶  EPO 315 Manufacturing Processes II  EPO 322 Diesel Engineering II/Simulator♣  EPO 322L Diesel Engineering II/Simulator Lab▶♣  ET 340 Fluid Mechanics♣  ET 340L Fluid Mechanics Lab♣  ET 342L Refrigeration and Air Conditioning♣  ET 342L Refrigeration and Air Conditioning Lab▶♣  ET 370L Electronics▶♣  ET 370L Electronics Lab♣  FF 200 Basic/Advanced Marine Firefighting▶  SPRING 2015  ELEC 32 Social Science Elective (Upper Division)  EPO 217 Shipboard Medical▶  ET 460 Automation▶♣	1.0 1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 0.0 Total 15.0	CRU 350 Sea Training III▶	Total 8.0
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  ET 344 Thermodynamics  FALL 2014  ELEC 9 American Institutions Elective  ENG 430 Naval Architecture  ENG 470 Engineering Management  ET 350 Electrical Machinery	3.0 1.0 3.0 1.0 3.0 3.0 3.0 <b>Total 17.0</b>	EGL 300 Advanced Writing  EPO 310 Plant Operations III▶  EPO 315 Manufacturing Processes II  EPO 322 Diesel Engineering II/Simulator♣  EPO 322L Diesel Engineering II/Simulator Lab▶♣  ET 340 Fluid Mechanics♣  ET 340L Fluid Mechanics Lab♣  ET 342 Refrigeration and Air Conditioning♣  ET 342L Refrigeration and Air Conditioning Lab▶♣  ET 370L Electronics ♣  ET 370L Electronics Lab♣  FF 200 Basic/Advanced Marine Firefighting▶  SPRING 2015  ELEC 32 Social Science Elective (Upper Division)  EPO 217 Shipboard Medical▶  ET 460 Automation▶♣  ET 460L Automation Lab♣	1.0 1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 0.0 Total 15.0	CRU 350 Sea Training III▶  ► STCW Courses (Must receive a "	Total 8.0 C-" or higher,
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  ET 344 Thermodynamics  ET 344 Thermodynamics  FALL 2014  ELEC 9 American Institutions Elective  ENG 430 Naval Architecture  ENG 470 Engineering Management  ET 350 Electrical Machinery  ET 350L Electrical Machinery  ET 350L Electrical Machinery Lab  ###################################	3.0 1.0 3.0 1.0 3.0 3.0 3.0 <b>Total 17.0</b>	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II EPO 322 Diesel Engineering II/Simulator♣ EPO 322L Diesel Engineering II/Simulator♣ EPO 322L Diesel Engineering II/Simulator Lab▶♣ ET 340L Fluid Mechanics♣ ET 340L Fluid Mechanics♣ ET 342L Refrigeration and Air Conditioning♣ ET 342L Refrigeration and Air Conditioning Lab▶♣ ET 370L Electronics▶♣ ET 370L Electronics Lab♣ FF 200 Basic/Advanced Marine Firefighting▶  SPRING 2015 ELEC 32 Social Science Elective (Upper Division) EPO 217 Shipboard Medical▶ ET 460 Automation▶♣ ET 460L Automation Lab♣ ET 490 Power Engineering Technology♣	1.0 1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 0.0 Total 15.0 3.0 1.0 3.0 1.0 3.0 1.0 3.0 1.0 3.0	CRU 350 Sea Training III►  ► STCW Courses (Must receive a "or "CR")	Total 8.0 C-" or higher,
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  ET 344 Thermodynamics  ET 344 Thermodynamics  ENG 430 Naval Architecture  ENG 470 Engineering Management  ET 350 Electrical Machinery  ET 350L Electrical Machinery  ET 350L Electrical Machinery  ET 400 Instrumentation and Measurement	3.0 1.0 3.0 1.0 3.0 3.0 3.0 <b>Total 17.0</b>	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II EPO 322 Diesel Engineering II/Simulator♣ EPO 322L Diesel Engineering II/Simulator♣ EPO 322L Diesel Engineering II/Simulator Lab▶♣ ET 340 Fluid Mechanics♣ ET 340L Fluid Mechanics♣ ET 342L Refrigeration and Air Conditioning♣ ET 342L Refrigeration and Air Conditioning♣ ET 370 Electronics▶♣ ET 370L Electronics Lab♣ FF 200 Basic/Advanced Marine Firefighting▶  SPRING 2015 ELEC 32 Social Science Elective (Upper Division) EPO 217 Shipboard Medical▶ ET 460 Automation▶♣ ET 460L Automation▶♣ ET 490 Power Engineering Technology♣ ET 490L Power Engineering Technology Lab♣	1.0 1.0 1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 0.0 Total 15.0 3.0 1.0 3.0 1.0 3.0 1.0 3.0 1.0	CRU 350 Sea Training III►  ► STCW Courses (Must receive a "or "CR")	Total 8.0 C-" or higher,
ELEC 22 Humanities Elective (Upper Division)  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ET 332 Strength of Materials  ET 344 Thermodynamics  ET 344 Thermodynamics  FALL 2014  ELEC 9 American Institutions Elective  ENG 430 Naval Architecture  ENG 470 Engineering Management  ET 350 Electrical Machinery  ET 350L Electrical Machinery  ET 350L Electrical Machinery Lab  ###################################	3.0 1.0 3.0 1.0 3.0 3.0 3.0 <b>Total 17.0</b>	EGL 300 Advanced Writing EPO 310 Plant Operations III▶ EPO 315 Manufacturing Processes II EPO 322 Diesel Engineering II/Simulator♣ EPO 322L Diesel Engineering II/Simulator♣ EPO 322L Diesel Engineering II/Simulator Lab▶♣ ET 340L Fluid Mechanics♣ ET 340L Fluid Mechanics♣ ET 342L Refrigeration and Air Conditioning♣ ET 342L Refrigeration and Air Conditioning Lab▶♣ ET 370L Electronics▶♣ ET 370L Electronics Lab♣ FF 200 Basic/Advanced Marine Firefighting▶  SPRING 2015 ELEC 32 Social Science Elective (Upper Division) EPO 217 Shipboard Medical▶ ET 460 Automation▶♣ ET 460L Automation Lab♣ ET 490 Power Engineering Technology♣	1.0 1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 0.0 Total 15.0 3.0 1.0 3.0 1.0 3.0 1.0 3.0 1.0 3.0	CRU 350 Sea Training III►  ► STCW Courses (Must receive a "or "CR")	Total 8.0 C-" or higher,