## REVISED 11/2/12 Subject to Change

## CLASS OF 2016 FACILITIES ENGINEERING TECHNOLOGY MAJOR DIVISIONS 1&2 CURRICULUM

**Total Units: 153** 

## **Certified Plant Engineer-In Training Certificate 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 2012		SP	RING 2	<u>013</u>		SPRING CRUISE 2013	
CHE 100 Chemistry I	3.0	DL	105	Marine Survival	1.0	CRU 150 Sea Training I	8.0
CHE 100L Chemistry I Lab	1.0	DL	105	LMarine Survival Lab	1.0	EPO 220 Diesel Engineering I*	2.0
ELEC 8 American Institutions Elective	3.0	DL	105	X USCG Lifeboatman's Exam	0.0		<b>Total 10.0</b>
ELEC 21 Humanities Elective (Lower Division)	3.0	EG	L 100	English Composition	3.0		
ENG 100 Engineering Graphics	2.0	EP	O 110	Plant Operations I	1.0		
ET 110 Introduction to Engineering Technology*	1.0	EP	O 125	Introduction to Marine Engineering₩	3.0		
MTH 100 College Algebra and Trigonometry	4.0	EP	O 125	L Introduction to Marine Engineering Lab*	1.0		
PE 100 Beginning/Intermediate Swimming	(.5)	EP	O 213	Welding Lab	1.0		
Tot	al 17.0	LIE	3 100	Information Fluency in the Digital World	2.0		
		MT	ΓH 210	Calculus I	4.0		
					<b>Total 17.0</b>		
FALL 2013		SP	RING 2	014		SPRING CO-OP 2014	
COM 220L Programming Applications for Engr. Tech Majors Lab	1.0	CH	IE 205	Chemistry of Plant Processes	3.0	CEP 270 FET Co-Op I	3.0
ELEC 20 Critical Thinking Elective	3.0	EG	L 110	Speech Communication	3.0		Total 3.0
EPO 210 Plant Operations II	1.0	EP	O 235	Steam Plant Watch Team Management*	1.0		
EPO 214 Boilers♥	3.0			Turbines *	3.0		
EPO 215 Manufacturing Processes I	1.0	ET	230	Properties of Materials*	2.0		
EPO 230 Steam Plant System Operations *	1.0	ET		Statics*	3.0		
MTH 211 Calculus II	4.0	PH	Y 205	Engineering Physics II	4.0		
PHY 200 Engineering Physics I	3.0				<b>Total 19.0</b>		
PHY 200L Engineering Physics I Lab	1.0						
Tot	al 18.0						
FALL 2014			RING 2	015		SPRING CO-OP 2015	
FALL 2014 ELEC 22 Humanities Elective (Upper Division)		SP	RING 2		(3.0)	SPRING CO-OP 2015 CEP 370 FET Co-Op II	3.0
ELEC 22 Humanities Elective (Upper Division)	3.0	SP EG	L 300	Advanced Writing	(3.0)	SPRING CO-OP 2015 CEP 370 FET Co-Op II	3.0 <b>Total 3.0</b>
ELEC 22 Humanities Elective (Upper Division) EPO 319 Facilities Engineering Diagnostics Lab*		SP EG EP	iL 300 O 310	Advanced Writing Plant Operations III	1.0		
ELEC 22 Humanities Elective (Upper Division) EPO 319 Facilities Engineering Diagnostics Lab*	3.0 1.0	SP EG EP EP	GL 300 O 310 O 315	Advanced Writing			
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab*  ET 230L Properties of Materials Lab*	3.0 1.0 1.0	EP EP EP	O 310 O 315 O 321	Advanced Writing Plant Operations III Manufacturing Processes II	1.0 1.0		
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits	3.0 1.0 1.0 3.0	SP EG EP EP EP	GL 300 O 310 O 315 O 321 340	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics	1.0 1.0 1.0		
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics	3.0 1.0 1.0 3.0 1.0	SPI EG EP( EP( ET ET	O 310 O 315 O 321 O 340	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics L Fluid Mechanics Lab	1.0 1.0 1.0 3.0		
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  ET 230L Properties of Materials Lab  ET 250 Electrical Circuits  ET 250L Electrical Circuits Lab  ET 330 Dynamics  ■	3.0 1.0 1.0 3.0 1.0 3.0	EP EP EP ET ET ET	GL 300 O 310 O 315 O 321 340 340 342	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics L Fluid Mechanics Lab Refrigeration and Air Conditioning	1.0 1.0 1.0 3.0 1.0		
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  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 1.0 3.0 1.0 3.0 3.0 3.0	EPO EPO EPO ET ET ET ET	GL 300 O 310 O 315 O 321 340 342 342	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics L Fluid Mechanics Lab	1.0 1.0 1.0 3.0 1.0 2.0 1.0		
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  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 1.0 3.0 1.0 3.0 3.0	EPO EPO EPO ET ET ET ET	GL 300 O 310 O 315 O 321 340 342 342 370	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics L Fluid Mechanics Lab Refrigeration and Air Conditioning L Refrigeration and Air Conditioning Lab	1.0 1.0 1.0 3.0 1.0 2.0		
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  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 1.0 3.0 1.0 3.0 3.0 3.0	EPO EPO EPO ETO ETO ETO ETO ETO ETO	GL 300 O 310 O 315 O 321 340 342 342 370	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics L Fluid Mechanics Lab Refrigeration and Air Conditioning L Refrigeration and Air Conditioning Lab Electronics	1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0		
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  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  Tot	3.0 1.0 1.0 3.0 1.0 3.0 3.0 3.0	SPI EG EP( EP( ET ET ET ET ET	GL 300 O 310 O 315 O 321 340 342 342 370 370	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics L Fluid Mechanics Lab Refrigeration and Air Conditioning L Refrigeration and Air Conditioning Lab Electronics L Electronics L Electronics Lab	1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0		
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  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  Tot	3.0 1.0 1.0 3.0 1.0 3.0 3.0 3.0 3.0	SPEED EPO ET ET ET ET ET ET ET	GL 300 O 310 O 315 O 321 340 342 342 370 370	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics L Fluid Mechanics Lab Refrigeration and Air Conditioning L Refrigeration and Air Conditioning Lab Electronics L Electronics	1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 Total 14.0		
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  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  Tot  FALL 2015  ELEC 9 American Institutions Elective	3.0 1.0 1.0 3.0 1.0 3.0 3.0 3.0 3.0 3.0	SPEED	GL 300 O 310 O 315 O 321 O 340 O 342 O 342 O 370 O 370  RING 2 EC 32	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics L Fluid Mechanics Lab Refrigeration and Air Conditioning L Refrigeration and Air Conditioning Lab Electronics L Electronics L Science Elective (Upper Division)	1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 <b>Total 14.0</b>		
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  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  Tot  FALL 2015  ELEC 9 American Institutions Elective  ENG 470 Engineering Management	3.0 1.0 1.0 3.0 1.0 3.0 3.0 3.0 3.0 3.0 3.0	EPPET ET E	GL 300 O 310 O 315 O 321 O 340 O 342 O 342 O 370 C 370 C 370 C 32 C 32 C 370 C	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics L Fluid Mechanics Lab Refrigeration and Air Conditioning L Refrigeration and Air Conditioning Lab Electronics L Electronics L Electronics Lab Social Science Elective (Upper Division) Facilities Management	1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 <b>Total 14.0</b>	CEP 370 FET Co-Op II	
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  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  Tot  FALL 2015  ELEC 9 American Institutions Elective  ENG 470 Engineering Management  ET 350 Electrical Machinery	3.0 1.0 3.0 1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	EPPET ET E	BL 300 O 310 O 315 O 321 O 340 O 342 O 342 O 370 O 370  RING 2 EC 32 G 472 G 460	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics L Fluid Mechanics Lab Refrigeration and Air Conditioning L Refrigeration and Air Conditioning Lab Electronics L Electronics L Electronics Lab  2016 Social Science Elective (Upper Division) Facilities Management Automation	1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 <b>Total 14.0</b>	CEP 370 FET Co-Op II <b>★ Courses in Major</b>	
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  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  Tot  FALL 2015  ELEC 9 American Institutions Elective  ENG 470 Engineering Management  ET 350 Electrical Machinery  ET 350L Electrical Machinery	3.0 1.0 3.0 1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	SPECED SP	BL 300 O 310 O 315 O 321 O 340 O 342 O 342 O 370 BRING 2 EC 32 G 472 G 460 O 460	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics L Fluid Mechanics Lab Refrigeration and Air Conditioning L Refrigeration and Air Conditioning Lab Electronics L Electronics L Electronics Lab  2016 Social Science Elective (Upper Division) Facilities Management Automation L Automation Lab L Automation Lab	1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 Total 14.0 3.0 3.0 3.0 3.0	CEP 370 FET Co-Op II	
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  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  Tot  FALL 2015  ELEC 9 American Institutions Elective  ENG 470 Engineering Management  ET 350 Electrical Machinery  ET 350L Electrical Machinery Lab  ET 400 Instrumentation and Measurement	3.0 1.0 3.0 1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	SPEED EPP EPP EPP EPP ET	EL 300 O 310 O 315 O 321 O 340 O 342 O 342 O 370 ERING 2 EC 32 IG 472 O 460 O 490	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics L Fluid Mechanics Lab Refrigeration and Air Conditioning L Refrigeration and Air Conditioning Lab Electronics L Electronics L Electronics Lab  Olf Social Science Elective (Upper Division) Facilities Management Automation L Automation Lab Power Engineering Technology	1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 Total 14.0 3.0 3.0 3.0 3.0 3.0	CEP 370 FET Co-Op II <b>★ Courses in Major</b>	
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab  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  Tot  FALL 2015  ELEC 9 American Institutions Elective  ENG 470 Engineering Management  ET 350 Electrical Machinery  ET 350L Electrical Machinery  ET 400 Instrumentation and Measurement  ET 400L Instrumentation and Measurement Lab	3.0 1.0 3.0 1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	SPPEGE EPOPE	BL 300 O 310 O 315 O 321 S 340 S 342 S 370 S 370 BRING 2 EC 32 EG 472 460 460 490 490	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics LFluid Mechanics Lab Refrigeration and Air Conditioning L Refrigeration and Air Conditioning Lab Electronics LElectronics LElectronics Lab  Olf Social Science Elective (Upper Division) Facilities Management Automation L Automation Lab Power Engineering Technology L Power Engineerin	1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 Total 14.0 3.0 3.0 3.0 3.0 3.0	CEP 370 FET Co-Op II <b>★ Courses in Major</b>	
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab*  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*  Tot  FALL 2015  ELEC 9 American Institutions Elective  ENG 470 Engineering Management*  ET 350L Electrical Machinery*  ET 350L Electrical Machinery Lab*  ET 400 Instrumentation and Measurement*  ET 400L Instrumentation and Measurement Lab*  ET 442 Heating, Ventilation, and A/C*	3.0 1.0 3.0 1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	SPEGE EPEGE	EL 300 O 310 O 315 O 321 S 340 S 342 S 370 S 370 ERING 2 EC 32 EG 472 460 460 490 490	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics L Fluid Mechanics Lab Refrigeration and Air Conditioning L Refrigeration and Air Conditioning Lab Electronics L Electronics L Electronics Lab  Olf Social Science Elective (Upper Division) Facilities Management Automation L Automation Lab Power Engineering Technology	1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 3.0 1.0 Total 14.0  3.0 3.0 3.0 1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	CEP 370 FET Co-Op II <b>★ Courses in Major</b>	
ELEC 22 Humanities Elective (Upper Division)  EPO 319 Facilities Engineering Diagnostics Lab*  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*  Tot  FALL 2015  ELEC 9 American Institutions Elective  ENG 470 Engineering Management*  ET 350L Electrical Machinery*  ET 350L Electrical Machinery Lab*  ET 400 Instrumentation and Measurement*  ET 400L Instrumentation and Measurement Lab*  ET 442 Heating, Ventilation, and A/C*  ET 442L Heating, Ventilation, and A/C Lab*	3.0 1.0 3.0 1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	SPECE EPOPER SPECE	EL 300 O 310 O 315 O 321 S 340 S 342 S 370 S 370 ERING 2 EC 32 EG 472 460 460 490 490	Advanced Writing Plant Operations III Manufacturing Processes II Introduction to Power Generation Plants Fluid Mechanics LFluid Mechanics Lab Refrigeration and Air Conditioning L Refrigeration and Air Conditioning Lab Electronics LElectronics LElectronics Lab  Olf Social Science Elective (Upper Division) Facilities Management Automation L Automation Lab Power Engineering Technology L Power Engineerin	1.0 1.0 1.0 3.0 1.0 2.0 1.0 3.0 1.0 Total 14.0 3.0 3.0 3.0 3.0 3.0	CEP 370 FET Co-Op II <b>★ Courses in Major</b>	