Otherwise your Academic Advisement Report will be incorrect.

MECHANICAL ENGINEERING MAJOR

THIRD ASSISTANT ENGINEER'S LICENSE OPTION

DIVISIONS 3&4 CURRICULUM

Total Units: 164

Third Assistant Engineer's/OICEW License Required For Graduation

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

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 2013 CHE 100 Chemistry I CHE 100L Chemistry I Lab EGL 100 English Composition ELEC 21 Humanities Elective (Lower Division) ENG 110 Introduction to Engineering and Technology ENG 120 Engineering Communications MTH 210 Calculus I NSC 100 Naval Science for the MMO PE 100 Beginning/Intermediate Swimming		3.0 1.0 3.0 3.0 1.0 2.0 4.0 3.0 (.5)	SPRING 2014 DL 105 DL 105L Marine Survival DL 105X USCG Lifeboatman's Exam ELEC 20 Critical Thinking Elective EPO 110 Plant Operations I EPO 125 Introduction to Marine Engineering EPO 213 Welding Lab MTH 211 Calculus II PHY 200 Engineering Physics I PHY 200L Engineering Physics I Lab	Total	1.0 1.0 0.0 3.0 1.0 3.0 1.0 4.0 3.0 1.0	SPRING CRUISE 2014 CRU 150 Sea Training I (Engine) EPO 220 Diesel Engineering I Total	8.0 2.0 10.0
FALL 2014 ENG 210 Engineering Computer Programming EPO 210 Plant Operations II▶ EPO 215 Manufacturing Processes I▶ ME 220 Computer Aided Engineering ME 230 Engineering Materials ME 232 Engineering Statics MTH 212 Calculus III PHY 205 Engineering Physics II		2.0 1.0 1.0 2.0 3.0 3.0 4.0 4.0	SPRING 2015 ENG 250 Electrical Circuits and Electronics ► ENG 250L Electrical Circuits and Electronics Lab ► EPO 214 Boilers ► EPO 230 Steam Plant System Operations ► ME 240 Engineering Thermodynamics ♣ ME 330 Engineering Dynamics ♣ ME 332 Mechanics of Materials ♣ MTH 215 Differential Equations		3.0 1.0 3.0 1.0 3.0 3.0 3.0 4.0	SPRING CRUISE 2015 CRU 250 Sea Training II Total	8.0 8.0
FALL 2015 ENG 300 Engineering Numerical Analysis EPO 235 Steam Plant Watch Team Management EPO 312 Turbines EPO 322 Diesel Engineering II/Simulator EPO 322L Diesel Engineering II/Simulator Lab FF 200 Basic/Advanced Marine Firefighting ME 340 Engineering Fluid Mechanics ME 350 Electromechanical Machinery ME 350L Electromechanical Machinery Lab ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems ME 360L Instr. and Measurement Systems ME 360L Instr. and Measurement Systems	Total	4.0 1.0 3.0 1.0 0.0 3.0 3.0 1.0 2.0 1.0	SPRING 2016 EGL 300 Advanced Writing EPO 310 Plant Operations III▶ ME 339 Material/Mechanical Lab ME 344 Heat Transfer ME 392 Mechanical Design ME 460 Automatic Feedback Control▶ ME 460L Automatic Feedback Control ♣ ME 490 Engineering Design Process STEM 1 Stem Course (See Box) ■	Total	(3.0) 1.0 2.0 3.0 3.0 3.0 1.0 3.0 3.0	SPRING CRUISE 2016 CRU 350 Sea Training III (Engine) Total ► STCW Courses (Must receive a "C-" or higher, or "CR") Courses in Major (CGPA = 2.0 is required) STEM COURSES Energy Design Stem 1 - ME 342 Refrigeration & Air Conditioning (Spring 2016) **	8.0 8.0
FALL 2016 ELEC 8 American Institutions Elective ELEC 31 Social Science Elective (Lower Division) ENG 430 Naval Architecture▶ ME 349 Fluid/Thermal Lab ME 394 Fluid/Thermal Design ME 492 Project Design I STEM 2 Stem Course (See Box) ** STEM 2 Stem Course (See Box)	Total	3.0 3.0 3.0 2.0 3.0 3.0 3.0 17.0	SPRING 2017 ELEC 9 American Institutions Elective ELEC 22 Humanities Elective (Upper Division) EPO 217 Shipboard Medical▶ HUM 310 Engineering Ethics ME 429 Manufacturing Processes Lab♣ ME 494 Project Design II♣ STEM 3 Stem Course (See Box)♣	Total	3.0 3.0 1.0 3.0 2.0 3.0 4.0 18.0	OR 1 - ME 440 Advanced Fluids & Thermodynamics (Spring 2016) 2 - ME 442 Heating, Ventilation, and A/C Design (Fall 2016) 3 - ME 444 Energy Systems Design (Spring 2017) Mechanical Design Stem 1 - ME 436 Mechatronic System Design (Spring 2016) 2 - ME 430 Mechanical Vibrations (Fall 2016) 3 - ME 432 Machinery Design (Spring 2017)	*