

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

**CLASS OF 2021**  
**MECHANICAL ENGINEERING MAJOR**  
**ME OPTION – DIVISIONS 3&4**  
**CURRICULUM**

**REVISED 4/25/18**  
**Subject to Change**

**Total Units: 151**

**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 2017**

CHE 110	General Chemistry	3.0
CHE 110L	General Chemistry Lab	1.0
EGL 100	English Composition	3.0
EGL 120	Technical Communication*	2.0
ELEC 21	Humanities Elective (Lower Division)	3.0
ENG 110	Introduction to Engineering and Technology*	1.0
MTH 210	Calculus I	4.0
PE 101	Swim Competency Exam	0.0
PE 102	Beginning/Intermediate Swimming	(0.5)
<b>Total</b>		<b>17.0</b>

**SPRING 2018**

DL 105	Marine Survival	1.0
DL 105L	Marine Survival Lab	1.0
DL 105X	USCG Lifeboatman's Exam	0.0
ELEC 20	Critical Thinking Elective	3.0
EPO 110	Plant Operations I	1.0
EPO 125	Introduction to Marine Engineering	3.0
EPO 213	Welding Lab	1.0
MTH 211	Calculus II	4.0
NAU 104	VPDSD	1.0
PHY 200	Engineering Physics I	3.0
PHY 200L	Engineering Physics I Lab	1.0
<b>Total</b>		<b>19.0</b>

**SUMMER CRUISE 2018**

CRU 150	Sea Training I (Engine)	8.0
EPO 220	Diesel Engineering I	2.0
<b>Total</b>		<b>10.0</b>

**FALL 2018**

ENG 210	Engineering Computer Programming	2.0
EPO 215	Manufacturing Processes I	1.0
ME 220	Computer Aided Engineering*	2.0
ME 230	Engineering Materials*	3.0
ME 232	Engineering Statics*	3.0
MTH 212	Calculus III	4.0
PHY 205	Engineering Physics II	4.0
<b>Total</b>		<b>19.0</b>

**SPRING 2019**

ENG 250	Electrical Circuits and Electronics*	3.0
ENG 250L	Electrical Circuits and Electronics Lab*	1.0
ME 240	Engineering Thermodynamics*	3.0
ME 330	Engineering Dynamics*	3.0
ME 332	Mechanics of Materials*	3.0
MTH 215	Differential Equations	4.0
<b>Total</b>		<b>17.0</b>

**SUMMER CO-OP 2019**

CEP 250	ME Co-Op I	3.0
<b>Total</b>		<b>3.0</b>

**FALL 2019**

ENG 300	Engineering Numerical Modeling & Analysis*	3.0
ME 340	Engineering Fluid Mechanics*	3.0
ME 350	Electromechanical Machinery*	3.0
ME 350L	Electromechanical Machinery Lab*	1.0
ME 360	Instrumentation and Measurement Systems*	2.0
ME 360L	Instr. and Measurement Systems Lab*	1.0
<b>Total</b>		<b>13.0</b>

**SPRING 2020**

EGL 300	Advanced Writing	(3.0)
ME 339	Material/Mechanical Lab*	2.0
ME 344	Heat Transfer*	3.0
ME 392	Mechanical Design*	3.0
ME 460	Automatic Feedback Control*	2.0
ME 460L	Automatic Feedback Control Lab*	1.0
ME 490	Engineering Design Process*	3.0
STEM 1	Stem Course (See Box)*	3.0
<b>Total</b>		<b>17.0</b>

**SUMMER CO-OP 2020**

CEP 350	ME Co-Op II	3.0
<b>Total</b>		<b>3.0</b>

**\* Courses in Major (CGPA = 2.0 is required)**

**FALL 2020**

ELEC 8	American Institutions Elective	3.0
ELEC 31	Social Science Elective (Lower Division)	3.0
ME 349	Fluid/Thermal Lab*	2.0
ME 394	Fluid/Thermal Design*	3.0
ME 492	Project Design I*	3.0
STEM 2	Stem Course (See Box)*	3.0
<b>Total</b>		<b>17.0</b>

**SPRING 2021**

ELEC 9	American Institutions Elective	3.0
ELEC 22	Humanities Elective (Upper Division)	3.0
HUM 310	Engineering Ethics	3.0
ME 429	Manufacturing Processes Lab*	1.0
ME 494	Project Design II*	3.0
STEM 3	Stem Course (See Box)*	3.0
<b>Total</b>		<b>16.0</b>

**STEM COURSES**

**Energy Design Stem**

- 1 - ME 440 Advanced Fluids & Thermodynamics (Spring 2020)\*
- 2 - ME 442 Heating, Ventilation and A/C Design (Fall 2020)\*
- 3 - ME 444 Energy Systems Design (Spring 2021)\*

**Mechanical Design Stem**

- 1 - ME 436 Mechatronic System Design (Spring 2020)\*
- 2 - ME 430 Mechanical Vibrations (Fall 2020)\*
- 3 - ME 432 Machinery Design (Spring 2021)\*