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

## STUDENTS ENTERING IN 2025 MECHANICAL ENGINEERING MAJOR

## ENERGY DESIGN & MECHANICAL DESIGN OPTIONS

## **DIVISIONS 3&4**

**CURRICULUM ROADMAP** 

Tot	al l	IJη	its	- 1	46
10	411	-11	ILS.		TU

Arts Elective (Area 3A-Lower Div) CHE 110 General Chemistry (Area 5A-Lower Div) CHE 110L General Chemistry Lab (Area 5C-Lower Div) EGL 100 English Composition (Area 1A) "G4" ENG 110 Introduction to Engineering and Technology ENG 112 Intro to Technical Communication (Area 1C*) "G4" FF 100 Basic Marine Firefighting ME 220 Computer Aided Design MTH 210 Calculus I (Area 2-Lower Div) PE 101 Swim Competency Exam PE 102 Beginning/Intermediate Swimming  Total	SPRING 2026  3.0 DL 105 Marine Survival  3.0 DL 105L Marine Survival Lab  1.0 DL 105X USCG Lifeboatman's Exa  3.0 EGL 220 Critical Thinking  1.0 Critical Thinking Elective (Area 1B) "C  2.0 EPO 110 Plant Operations I  0.0 EPO 125L Introduction to Marine En  4.0 EPO 213 Welding Lab  0.0 MTH 211 Calculus II (Area 2-Lowe)  (0.5) NAU 104 Shipboard Security and Re  19.0 PHY 200 Engineering Physics I (Area 2-Lowe)  PHY 200L Engineering Physics I Lab	1.0 CRU 1: 1.0 1.0 1.0 1.0 1.0 3.0 64" 1.0 gineering 3.0 gineering Lab 1.0 1.0 1.0 1.0 2.0 1.0 2.0 2.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	MER SEA TERM 2026 50 Sea Training I (Engine) 8.0 Total 8.0
FALL 2026 ENG 210 Engineering Computer Programming EPO 215 Manufacturing Processes I ME 205 Engineering Career Preparation* ME 230 Engineering Materials* ME 232 Engineering Statics* MTH 212 Calculus III PHY 205 Engineering Physics II (Area 5A-Lower Div) PHY 205L Engineering Physics II Lab  Total	2.0 Humanities Elective (Area 3B-Lower D 1.0 ENG 250 Electrical Circuits and Ele 1.0 ENG 250L Electrical Circuits and Ele 3.0 ME 240 Engineering Thermodynar 3.0 ME 330 Engineering Dynamics 4.0 MTH 215 Differential Equations (Ar 3.0 1.0 18.0	tronics ♣ 3.0 CEP 25 ctronics ♣ 1.0 nics ♣ 3.0 3.0 3.0	MER INTERNSHIP 2027 50 ME Co-Op I 3.0 Total 3.0
FALL 2027 CSU Graduate Writing Assessment Requirement (GWAR) Elective Life Science Elective (Area 5B-Lower Div) ME 332 Mechanics of Materials ME 340 Engineering Fluid Mechanics ME 360 Instrumentation and Measurement Systems ME 360L Instr. and Measurement Systems Lab Total  FALL 2028 HIS 100 U.S. History (to 1877) OR HIS 101 U.S. History (from 1877) American Institutions I Elective (Area 4-Lower Div) OR (Area 6) Social Science Elective (Area 4-Lower Div) ME 405 Fundamentals of Engineering Exam Seminar ME 462 Experimental Methods in ME ME 462L Experimental Methods in ME ME 492 Project Design I ME ME 492L Project Design I Lab Option Specific Course (2nd of 3)  Total	SPRING 2028  (3.0) ME 344 Heat Transfer*  3.0 ME 392 Mechanical Design* 3.0 ME 429 Manufacturing Processes I 3.0 ME 436 Mechatronic System Desig 2.0 ME 436L Mechatronic System Desig 1.0 ME 490 Engineering Design Proce 12.0 Option Specific Course (1st of 3)*  SPRING 2029  Arts/Humanities Elective (Area 3-Uppe 3.0 ENG 310 Engineering Ethics (Area 4 3.0 GOV 200 American Government 1.0 American Institutions II Elective (Area 4 2.0 ME 494 Project Design II* 1.0 ME 494L Project Design II Lab* 2.0 Option Specific Course (3rd of 3) *	3.0 3.0 3.0 3.0 3.0 3.0 3.0 1.0 2.0 gn ♣ 2.0 gn Lab ♣ 2.0 3.0 Total 16.0  Total 16.0  Total 16.0   Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  Total 16.0  The (GW cour Writ Mrit Mrit Mrit Mrit Mrit Mrit Mrit M	### Area IC Sequence of Two Courses  **CSU Graduate Writing Assessment Requirement VAR) may be met by passing one of the following rses: EGL 300 Advanced Writing or EGL 302 Nonfiction ting. (Must receive a "C-" or higher)  ### Area IC Sequence of Two Courses  **CSU Graduate Writing Assessment Requirement VAR) may be met by passing one of the following rses: EGL 300 Advanced Writing or EGL 302 Nonfiction ting. (Must receive a "C-" or higher)  ### Area IC Sequence of Two Courses  **CSU Graduate Writing Assessment Requirement VAR) may be met by passing one of the following rses: EGL 300 Advanced Writing or EGL 302 Nonfiction ting. (Must receive a "C-" or higher)  ### Area IC Sequence of Two Courses  **CSU Graduate Writing Assessment Requirement VAR) may be met by passing one of the following rses: EGL 302 Nonfiction ting. (Must receive a "C-" or higher)  ### Area IC Sequence of Two Courses  ### Area IC Sequence of Two Courses
	s and Humanities Physica Final and Behavioral Sciences Cthnic S	l and Biological Sciences  Mechailst – M 2nd – M	nical Design Option ME 432 Machinery Design ME 430 Mechanical Vibrations ME 460 Automatic Feedback Control