

KU Mechanical Engineering Curriculum



Freshman Year		Sophomore Year		Junior Year		Senior Year	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
ME 228* Computer Graphics Fall, Spr - 3 cr	ME 208* Intro. Digital Comp. Methods in M.E. Co: MATH 125 Fall, Spr - 3 cr	ME 211* Statics and Intro to Mechanics Pr: PHSX 210 Fall, Spr - 3 cr	ME 311* Mechanics of Mat'ls Pr: ME 211 Co: MATH 220 Fall, Spr - 3 cr	ME 320* + 321 Dynamics / Lab Pr: ME 211 (201), MATH 220, MATH 290 Fall, Spr - 3+1 cr	ME 628 Mech. Design Pr: ME 311 Spring only - 3 cr	ME 682 System Dynamics and Control Systems Pr: ME 320 Fall only - 3 cr	Approved Elective ² Fall, Spr, Su - 3 cr
CHEM 150* (130) <i>(GE3N)</i> Chemistry for Engineers Fall, Spr - 5 cr	PHSX 210* + 216 <i>(GE11)</i> Gen. Physics I Pr: MATH 125 Co: MATH 126 Fall, Spr, Su - 3+1 cr	PHSX 212* + 236 Gen. Physics II Pr: PHSX 210 MATH 126 Fall, Spr, Su - 3+1 cr	ME 312* Basic Engr Thermodynamics Pr: PHSX 210 Co: MATH 127 Fall, Spr, Su - 3 cr	ME 412 Thermal Systems Pr: ME 312 Fall, Spr - 3 cr	ME 510 <i>(C&PE511)</i> Fluid Mechanics Pr: ME 211 (201), ME 312, MATH 127 Co: MATH 220 Fall, Spr - 3 cr	ME 612 Heat Transfer Pr: ME 312, MATH 220 Co: ME 510 Fall, Spr, Su - 3 cr	Approved Elective ² Fall, Spr, Su - 3 cr
MATH 125* <i>(GE12)</i> Calculus I Pr: see catalog Fall, Spr, Su - 4 cr	MATH 126* Calculus II Pr: MATH 125 Fall, Spr, Su - 4 cr	MATH 127* Calculus III Pr: MATH 126 Fall, Spr, Su - 4 cr	MATH 220* Applied Differential Equations Pr: MATH 126 Fall, Spr, Su - 3 cr	ME 508 Num. Analysis Pr: ME 208, MATH 220, MATH 290 Fall, Spr - 3 cr	ME 661 Finite Element Method for Stress Analysis Pr: ME 311, MATH 220 MATH 290 Spr, Su - 3 cr	ME 455 ME Meas. & Exp. Pr: ME 208, ME 311 Co: ME 510, ME 320, ME 612, EECS 318 MATH 365 Fall, Spr - 4 cr	Approved Elective ² Fall, Spr, Su - 3 cr
Written Comm <i>(GE21)</i> ENGL 101 Pr: see catalog Fall, Spr, Su - 3 cr	Written Comm <i>(GE21)</i> ENGL 102 Pr: ENGL 101 Fall, Spr, Su - 3 cr	ME 306 Science of Materials Pr: CHEM 150 (130) Fall, Spr, Su - 3 cr	MATH 290* Elementary Linear Algebra Pr: MATH 126 Fall, Spr, Su - 2 cr	ME 307 Engr. Materials Lab Pr: CHEM 150 (130) Co: ME 306, ME 311 Fall only - 2 cr	EECS 316 + 318 Circuits, Electronics and Instrumentation Pr: 8 cr of PHSX, MATH 220 Spring only - 3+1 cr	Arts and Humanities ¹ <i>(GE3H)</i> Fall, Spr, Su - 3 cr	Global Culture/Awareness ¹ <i>(AE42)</i> Fall, Spr, Su - 3 cr
	Oral Comm <i>(GE22)</i> COMS 130 or 132 Fall, Spr, Su - 3 cr	Ethics <i>(AE51)</i> PHIL 160 or 180 Fall, Spr, Su - 3 cr	Economics <i>(GE3S)</i> ECON 104, 142, or 144 Fall, Spr, Su - 3 cr	Statistics * MATH 365, 526, or DSCI 202 Pr: see catalog Fall, Spr, Su - 3 cr	ME 501 Mech. Engr. Design Process Pr: ME 311, ME 312 Co: ME 228, ME 307 Spring only - 2 cr	Capstone Design Option: A - ME 640 + List 1 → B - ME 627 → C - ME 640 + 633 ⁴ → D - ME 644 ⁷ ← E - ME 640 + List 1 → Fall only - 2-5 cr	Capstone Design <i>(AE6)</i> Option: A - ME 641 ⁵ B - ME 642 ³ (FSAE) C - ME 643 ⁶ (Biomech) D - ME 640 + List 1 E - ME 645 ⁸ (EcoHwks) Spring only - 2-5 cr

Pr=Prerequisite Co=Corequisite cr=semester credit hour

Human Diversity¹
(AE41)

Fall, Spr, Su - 3 cr

¹ Courses to satisfy the KU Core from each of the following areas: Goal 3 Arts and Humanities, Goal 4 LO1 Human Diversity, and Goal 4 LO2 Global Culture/Awareness
² 6-12 credit hours Advanced Engr (List 1) and 0-6 credit hours General Elective (List 2)
³ Pr: ME 501, ME 627, and ME 628 Co: ME 412 and ME 455
⁴ Counts as List 1 Elect. -- Pr: ME 311 and ME 320
⁵ (includes 2 cr ME 640) -- Pr: ME 501, ME 455, and ME 628
⁶ (includes 2 cr ME 640) -- Pr: ME 501, ME 628, and ME 633
⁷ (includes 2 cr ME 640) -- Pr: ME 412, ME 501, and ME 455
⁸ (includes 2 cr ME 640) -- Pr: ME 501, ME 510, ME 628

Co : ME 455
Co: ME 628
Co : ME 412, ME 455