



The University of Texas at Austin
Mechanical Engineering
 Cockrell School of Engineering

2016-18, 2018-20, 2020-22

Undergraduate Catalog General Curriculum

Legend		Course Flags In the process of fulfilling the core curriculum and other degree requirements, undergrads complete courses with content in the following areas:
FLAG	Pre-requisite – credit for	<ul style="list-style-type: none"> • Wr – Writing (2 courses) • QR – Quantitative Reasoning (1 course) • GC – Global Cultures (1 course) • CD – Cultural Diversity in the US (1 course) • E – Ethics (1 course) • II – Independent Inquiry (1 course) <small>*not all courses will carry this flag; check the course schedule</small>
Course C	Co-requisite – credit OR registration for	
Course Name	C – Core Curriculum	
PRE-REQ	S – Supporting Course	
CO-REQ	T – Technical Area	

Suggested Arrangement for Robotics and Mechatronics, Vehicle Systems, & Dynamics, Vibrations, Acoustics, and Controls

1	Fall	M 408C ^{QR} ^C Differential and Integral Calculus <small>70+ on UT Math Assessment</small>	CH 301 ^{QR} ^C Principles of Chemistry I <small>ALEKS 85+ (M 408C/D)</small>	M E 302 Intro to Engr. Design & Graphics	UGS 302/3 ^{CD*/GC*} ^C First-Year Signature Course	RHE 306 ^C Rhetoric and Writing	
	Spring	M 408D Sequences, Series & Multivariable Calculus <small>M 408C</small>	PHY 303K ^{QR} ^C Engineering Physics I <small>M 408C/K (M 408D/L) (PHY 103M)</small>	PHY 105M ^{QR} Lab for PHY 303K <small>(PHY 303K)</small>	E S 333T ^{E, Wr} Engineering Communication <small>RHE 306</small>	Soc. Sci. ^{CD*/GC*} ^C Social & Behavioral Sci. from Approved List	VAPA ^{CD*/GC*} ^C Visual & Performing Arts from Approved List
2	Fall	M 427J ^{QR} Diff. Eqns. With Linear Algebra <small>M 408D/L</small>	PHY 303L ^C Engineering Physics II <small>M 408C/L (M 408D/M) (PHY 103M) (PHY 303K) (PHY 103M)</small>	PHY 105N Lab for PHY 303L <small>(PHY 103M) (PHY 303L)</small>	E M 306 Statics <small>M 408D/L (PHY 303K) (PHY 103M)</small>	M E 316T Thermodynamics <small>CH 301 (M 408D/M) (PHY 303K)</small>	GOV 310L ^C Amer. Government
	Spring	M 427L Advanced Calculus for Applications II <small>M 408D/L</small>	E M 319 Mechanics of Solids <small>E M 306 (M 408D/M) (PHY 303K)</small>	M E 318M Intro to Comp & Engr. Comp. Methods <small>M 427J</small>	M E 314D Dynamics <small>E M 306 (M 408D/M)</small>	M E 330 Fluid Mechanics <small>E M 306 (M 427J) (M E 316T)</small>	M E 130L Expt. Fluid Mechanics <small>M E 330</small>
3	Fall	M E 334 Materials Engineering <small>CH 301 (PHY 303L) (PHY 103N) (E M 319) (M E 134L)</small>	M E 134L Materials Engineering Lab <small>M E 334</small>	M E 340 Mechatronics <small>M 427J (M E 318M) (PHY 303L) (PHY 103N)</small>	M E 140L Mechatronics Lab <small>M E 340</small>	M E 335 ^{QR} Engineering Statistics <small>M 408D/M</small>	US History ^{CD*} ^C Approved US History Course
	Spring	M E 344 Dynamic Systems and Controls <small>M 427J (M E 144L) (M E 318M) (M E 314D) (M E 340) (M E 140L)</small>	M E 144L Dynamic Systems and Controls Lab <small>M E 344</small>	M E 338 Machine Elements <small>E M 319 (M E 334) (M E 134L)</small>	M E 339 Heat Transfer <small>M E 318M (M E 139L) (M E 330) (M E 130L)</small>	M E 139L Expt. Heat Transfer <small>M E 339</small>	CGE ^T Career Gateway Elective <small>Varies with each track</small>
4	Fall	M E 353 ^{QR} Engineering Finance <small>M E 335</small>	M E 366J ^{Wr} ME Design Methodology <small>ALL ARE PRE-REQS: (M E 302) (M E 338) (M E 333T) (M E 339) (M E 330) (M E 139L) (M E 130L) (M E 340) (M E 335) (M E 140L)</small>	CGE ^T Career Gateway Elective <small>Varies with each track</small>	GOV 312L/P ^{CD*} ^C Topics in Government	US History ^{CD*} ^C Approved US History Course	
	Spring	M E 266K ^{II, Wr} Design Project <small>M E 344 (M E 266P) (M E 144L) (M E 353) (M E 366J)</small>	M E 266P Design Project Lab <small>M E 344 (M E 266K) (M E 144L) (M E 353) (M E 366J)</small>	CGE ^T Career Gateway Elective <small>Varies with each track</small>	CGE ^T Career Gateway Elective <small>Varies with each track</small>	Math or Natural Sci. Elective ^S <small>Choose from the ABET approved list found in the advising office or online</small>	E 316 ^{CD*/GC*} ^C <small>*Must take E 316L, 316M, 316N, or 316P</small> Humanities <small>RHE 306</small>