



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

2016-2018/2018-2020 Undergraduate Catalog
 General Curriculum

Legend		Pre-requisite – credit for registration for	Course Flags In the process of fulfilling the core curriculum and other degree requirements, undergrads complete courses with content in the following areas:
FLAG	Course C	Co-requisite – credit OR registration 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)
Course Name	C – Core Curriculum	S – Supporting Course	
PRE-REQ	CO-REQ	T – Technical Area	

1	Fall	M 408C C Differential and Integral Calculus <small>70+ on UT Math Assessment</small>	CH 301 C Principles of Chemistry I <small>ALEKS 85+ M 408C/D</small>	M E 302 Intro to Engr. Design & Graphics <small>M 408C/K</small>	<i>Varies</i> UGS 302/3 C First-Year Signature Course	RHE 306 C Rhetoric and Writing	
	Spring	M 408D Sequences, Series & Multivariable Calculus <small>M 408C</small>	PHY 303K C Engineering Physics I <small>M 408C/K M 408D/L PHY 103M</small>	PHY 103M Engr. Physics I Lab <small>PHY 303K</small>	<i>Varies</i> VAPA C Visual & Performing Arts from Approved List	<i>Varies</i> Soc. Sci. C Social & Behavioral Sci. from Approved List	<i>Varies</i> US History C Approved US History Course
2	Fall	M 427J Diff. Eqns. With Linear Algebra <small>M 408D/L/S</small>	PHY 303L C Engineering Physics II <small>M 408C/L M 408D/M PHY 303K PHY 103M</small>	PHY 103N Engr. Physics II Lab <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/S</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 M E 318M</small>	M E 333T Engineering Communication <small>E, Wr RHE 306</small>	
3	Fall	M E 334 Materials Engineering <small>CH 301 PHY 303L PHY 303K PHY 103M M E 302 M E 134L</small>	M E 134L Materials Engineering Lab <small>M E 302 M E 334</small>	M E 330 Fluid Mechanics <small>E M 306 M 427J M E 316T M E 130L</small>	M E 130L Expt. Fluid Mechanics <small>M E 330</small>	M E 335 Engineering Statistics <small>M 408D/M M E 318M</small>	CGE T Career Gateway Elective <small>Varies with each track</small>
	Spring	M E 340 Mechatronics <small>M 408D/M PHY 303L PHY 103M M E 140L</small>	M E 140L Mechatronics Lab <small>M E 340</small>	M E 338 Machine Elements <small>E M 319 M E 334</small>	M E 339 Heat Transfer <small>M E 318M M E 330 M E 130L M E 139L</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 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>	<i>Wr</i> M E 366J 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>	M E 353 Engineering Finance <small>M 408D/M M E 318M M E 335</small>	CGE T Career Gateway Elective <small>Varies with each track</small>	<i>Varies</i> GOV 312L/P C Topics in Government
	Spring	<i>II, Wr</i> M E 266K Design Project <small>M E 344 M E 144L M E 353 M E 366J M E 266P</small>	M E 266P Design Project Lab <small>M E 344 M E 144L M E 353 M E 366J M E 266K</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>	<i>Varies</i> E 316 C *Must take E 316L, 316M, 316N, or 316P Humanities <small>RHE 306</small>	<i>Varies</i> US History C Approved US History Course

MECHANICAL ENGINEERING

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Suggested Arrangement of Courses for Eight-Semester Program

126 credit hours

First Year:

33 credit hours

Fall:	Hours:	Spring:	Hours:
CH 301 , Principles of Chemistry I _____	3	M 408D , Sequences, Series, & Multivariable Calculus _____	4
M 408C , Differential & Integral Calculus _____	4	PHY 303K , Engineering Physics _____	3
M E 302 , Intro. to Engineering Design and Graphics _____	3	PHY 103M , Engineering Physics I Laboratory _____	1
RHE 306 , Rhetoric and Writing _____	3	Approved Visual and Performing Arts* _____	3
UGS 302 or 303 , First-Year Signature Course _____	3	Approved Social and Behavioral Science* _____	3
		American History* _____	3
TOTAL _____	16	TOTAL _____	17

Second Year:

33 credit hours

Fall:	Hours:	Spring:	Hours:
M 427J , Diff. Eqns. With Linear Algebra _____	4	M 427L , Advanced Calculus for Applications II _____	4
PHY 303L , Engineering Physics II _____	3	E M 319 , Mechanics of Solids _____	3
PHY 103N , Engineering Physics II Laboratory _____	1	M E 318M , Intro. to Comp. & Engr. Comp. Methods _____	3
E M 306 , Statics _____	3	M E 314D , Dynamics _____	3
M E 316T , Thermodynamics _____	3	M E 333T , Engineering Communications _____	3
American and Texas Government _____	3		
TOTAL _____	17	TOTAL _____	16

Third Year:

28 credit hours

Fall:	Hours:	Spring:	Hours:
M E 330 , Fluid Mechanics _____	3	M E 339 , Heat Transfer _____	3
M E 130L , Experimental Fluid Mechanics _____	1	M E 139L , Experimental Heat Transfer _____	1
M E 334 , Materials Engineering _____	3	M E 338 , Machine Elements _____	3
M E 134L , Materials Engineering Laboratory _____	1	M E 340 , Mechatronics _____	3
M E 335 , Engineering Statistics _____	3	M E 140L , Mechatronics Laboratory _____	1
Approved Career Gateway Elective* _____	3	Approved Career Gateway Elective* _____	3
TOTAL _____	14	TOTAL _____	14

Fourth Year:

32 credit hours

Fall:	Hours:	Spring:	Hours:
M E 344 , Dynamic Systems and Controls _____	3	M E 266K , Mechanical Engineering Design Project _____	2
M E 144L , Dynamic Systems and Controls Laboratory _____	1	M E 266P , Design Project Laboratory _____	2
M E 353 , Engineering Finance _____	3	Approved Career Gateway Elective* _____	3
M E 366J , Mechanical Engr. Design Methodology _____	3	Approved Mathematics or Natural Science Elective* _____	3
Approved Career Gateway Elective* _____	3	E 316 , Masterworks of Literature _____	3
American and Texas Government _____	3	American History* _____	3
TOTAL _____	16	TOTAL _____	16

*Check with the M E Academic Advising Office in ETC 5.224 for a list of approved courses.