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

2026 – 2028
Undergraduate Catalog General Curriculum

Legend

Course
PRE-REQ | CO-REQ

Pre-requisite – credit for
Co-requisite – credit OR registration for

C – Core Curriculum
S – Supporting Course
T – Technical Area

Year 1

Fall

M 408C C — Differential and Integral Calculus
- 70+ on UT Math Assessment

CH 301 C — Principles of Chemistry I

M E 302 — Intro to Engr. Design & Graphics

UGS 302/3 C — First-Year Signature Course

RHE 306 C — Rhetoric and Writing

Spring

M 408D — Sequences, Series & Multivariable Calculus
- M 408C

PHY 303K C — Engineering Physics I
- M 408C/K
- M 408D/L
- PHY 105M

PHY 105M — Lab for PHY 303K
- PHY 303K

Wr
E S 333T — Engineering Communication
- RHE 306

Soc. Sci. C — Social & Behavioral Sci. from Approved List

VAPA C — Visual & Performing Arts from Approved List

Year 2

Fall

M 427J — Diff. Eqns. With Linear Algebra
- M 408D/L

PHY 303L C — Engineering Physics II
- PHY 303K
- PHY 105M
- M 408D/M
- PHY 105N

PHY 105N — Lab for PHY 303L
- PHY 105M
- PHY 303L

E M 306 — Statics
- M 408D/L
- PHY 303K

M E 316T — Thermodynamics
- CH 301
- M 408D/M
- PHY 303K

GOV 310L C — Amer. Government

Spring

M 427L — Advanced Calculus for Applications II
- M 408D/L

E M 319 — Mechanics of Solids
- M 408D/M
- E M 306

M E 318M — Intro to Comp & Engr. Comp. Methods
- M 427J

M E 314D — Dynamics
- M 408D/M
- E M 306

US History C — Approved US History Course

Year 3

Fall

M E 334 — Materials Engineering
- CH 301
- PHY 303L
- PHY 105N
- E M 319
- M E 134L

M E 134L — Materials Engineering Lab
- M E 334

M E 330 — Fluid Mechanics
- E M 306
- M 427J
- M E 316T
- M E 130L

M E 130L — Expt. Fluid Mechanics
- M E 330

M E 335 — Engineering Statistics
- M 408D/M

US History C — Approved US History Course

Spring

M E 340 — Mechatronics
- M E 318M
- PHY 303L
- PHY 103N
- M E 140L

M E 140L — Mechatronics Lab
- M E 340

M E 338 — Machine Elements
- E M 319
- M E 334

M E 339 — Heat Transfer
- M E 318M
- M E 330
- M E 130L
- M E 139L

M E 139L — Expt. Heat Transfer
- M E 339

CGE T — Career Gateway Elective
Varies with each track

Year 4

Fall

M E 344 — Dynamic Systems and Controls
- M 427J
- M E 318M
- M E 314D
- M E 340
- M E 140L
- M E 144L

M E 144L — Dynamic Systems and Controls Lab
- M E 344

Wr
M E 366J — ME Design Methodology
- **ALL ARE PRE-REQS:**
- M E 302
- E S 333T
- M E 330
- M E 130L
- M E 335
- M E 338
- M E 339
- M E 139L
- M E 340
- M E 140L

M E 353 — Engineering Finance
- M E 335

CGE T — Career Gateway Elective
Varies with each track

GOV 312L/P C — Topics in Government

Spring

Wr
M E 466E — Senior Design Project
- M E 344
- M E 144L
- M E 353
- M E 366J

CGE T — Career Gateway Elective
Varies with each track

CGE T — Career Gateway Elective
Varies with each track

Math or Natural Sci. Elective S
Choose from the ABET approved list found in the advising office or online

E 316 C
*Must take E 316L, 316M, 316N, or 316P
Humanities
- RHE 306

Some courses may not be taken in the order that they appear. This is a tentative plan

MECHANICAL ENGINEERING

2026 – 2028 Undergraduate Catalog

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 105M**, *Lab for PHY 303K*	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
		E S 333T, *Engineering Communication*	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 105N, *Lab for PHY 303L*	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	US History*	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
US History*	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 466E**, *Mechanical Engineering Design Project*	4
M E 144L, *Dynamic Systems and Controls Laboratory*	1	Approved Career Gateway Elective *	3
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		
TOTAL	**16**	**TOTAL**	**16**

*Check with the M E Academic Advising Office in ETC 2.146 for a list of approved courses.