

Suggested Arrangement of Courses, Mechanical Engineering (BSME)

Requirements		Hours
1st Semester		
CH 301	Principles of Chemistry I (Major)	3
M 408C	Differential and Integral Calculus (General Education) ⁰²⁰	4
M E 302	Introduction to Engineering Design and Graphics (Major)	3
RHE 306	Rhetoric and Writing (Core) ⁰¹⁰	3
UGS 302	First-Year Signature Course (Core) ⁰⁹⁰	3
or UGS 303	First-Year Signature Course	
2nd Semester		
M 408D	Sequences, Series, and Multivariable Calculus (General Education)	4
PHY 303K & PHY 105M	Engineering Physics I and Laboratory For Physics 302K, 303K, and 317K (General Education)	4
Social and Behavioral Sciences (Core) ⁰⁸⁰		3
Visual and Performing Arts (Core) ⁰⁵⁰		3
U.S. History (Core) ⁰⁶⁰		3
3rd Semester		
E M 306	Statics (Major)	3
M 427J	Differential Equations with Linear Algebra (General Education)	4
M E 316T	Thermodynamics (Major)	3
PHY 303L & PHY 105N	Engineering Physics II and Laboratory For Physics 302L, 303L, and 317L (General Education)	4
American and Texas Government (Core) ⁰⁷⁰		3
4th Semester		
E M 319	Mechanics of Solids (Major)	3
M 427L	Advanced Calculus for Applications II (Major)	4
M E 318M	Programming and Engineering Computational Methods (Major)	3
M E 314D	Dynamics (Major)	3
E S 333T	Engineering Communication (General Education)	3
5th Semester		
M E 330	Fluid Mechanics (Major)	3
M E 130L	Experimental Fluid Mechanics (Major)	1
M E 334	Materials Engineering (Major)	3
M E 134L	Materials Engineering Laboratory (Major)	1
M E 335	Engineering Statistics (Major)	3
Career Gateway Elective course (Major)		3
6th Semester		
M E 338	Machine Elements (Major)	3
M E 339	Heat Transfer (Major)	3

M E 139L	Experimental Heat Transfer (Major)	1
M E 340	Mechatronics (Major)	3
M E 140L	Mechatronics Laboratory (Major)	1
Career Gateway Elective course (Major)		3
7th Semester		
M E 344	Dynamic Systems and Controls (Major)	3
M E 144L	Dynamic Systems and Controls Laboratory (Major)	1
M E 353	Engineering Finance (Major)	3
M E 366J	Mechanical Engineering Design Methodology (Major)	3
Career Gateway Elective course (Major)		3
American and Texas Government (Core) ⁰⁷⁰		3
8th Semester		
M E 266K	Mechanical Engineering Design Project (Major)	2
M E 266P	Design Project Laboratory (Major)	2
Career Gateway Elective course (Major)		3
Approved Mathematics/Natural Science Elective course (Elective)		3
E 316L	British Literature (Core) ⁰⁴⁰	3
or E 316M	American Literature	
or E 316N	World Literature	
or E 316P	Masterworks of Literature	
U.S. History (Core) ⁰⁶⁰		3
Total Hours		126

Four-year degree suggestion (for planning purposes only).

Currently enrolled students should meet with their academic advisor.

Course categories: Core, General Education[†], Major, Elective, Opportunity

Core Component Areas: ⁰¹⁰ Communication; ⁰²⁰ Mathematics; ⁰³⁰ Natural Science and Technology, Part I; ⁰⁴⁰ Humanities; ⁰⁵⁰ Visual and Performing Arts; ⁰⁶⁰ U.S. History; ⁰⁷⁰ American and Texas Government; ⁰⁸⁰ Social and Behavioral Sciences; ⁰⁹⁰ First-Year Signature Course; ⁰⁹³ Natural Science and Technology, Part II

Undergraduate Degree Program listing

[†] Effective April 2025, UT Austin no longer requires Skills and Experience flags.