

Suggested Arrangement of Courses, Computational Engineering (BSCompE)

Requirements		Hours
1st Semester		
UGS 302	First-Year Signature Course (Core) ⁰⁹⁰	3
or UGS 303	First-Year Signature Course	
CH 301	Principles of Chemistry I (Core) ⁰³⁰	3
M 408C	Differential and Integral Calculus (Core, General Education) ⁰²⁰	4
RHE 306	Rhetoric and Writing (Core) ⁰¹⁰	3
Social and Behavioral Sciences (Core) ⁰⁸⁰		3
2nd Semester		
COE 301	Introduction to Computer Programming (Major)	3
M 408D	Sequences, Series, and Multivariable Calculus (General Education)	4
PHY 303K	Engineering Physics I (General Education)	3
PHY 105M	Laboratory For Physics 302K, 303K, and 317K (General Education)	1
M E 210	Engineering Design Graphics (Major)	2
U.S. History (Core) ⁰⁶⁰		3
3rd Semester		
E M 306	Statics (Major)	3
COE 322	Scientific Computation (Major)	3
M 427J	Differential Equations with Linear Algebra (General Education)	4
PHY 303L	Engineering Physics II (General Education)	3
PHY 105N	Laboratory For Physics 302L, 303L, and 317L (General Education)	1
M E 310T	Applied Thermodynamics (Major)	3
4th Semester		
COE 311K	Engineering Computation (Major)	3
COE 332	Software Engineering and Design (Major)	3
E M 311M	Dynamics (Major)	3
M 427L	Advanced Calculus for Applications II (General Education)	4
GOV 310L	American and Texas Government (Core) ⁰⁷⁰	3
5th Semester		
ASE 320	Low-Speed Aerodynamics (Major)	3
E S 333T	Engineering Communication (Major)	3
COE 352	Topics in Advanced Scientific Computation (Major)	3
E M 319	Mechanics of Solids (Major)	3

COE 362	Engineering Probability and Statistics (Major)	3
or M 362K	Probability I	
6th Semester		
ASE 330M	Linear System Analysis (Major)	3
COE 321K	Computational Methods for Structural Analysis (Major)	3
COE 347	Introduction to Computational Fluid Dynamics (Major)	3
Technical Elective (Major)		3
E 316L	British Literature (Core) ⁰⁴⁰	3
or E 316M	American Literature	
or E 316N	World Literature	
or E 316P	Masterworks of Literature	
7th Semester		
ASE 375	Electromechanical Systems (Major)	3
Technical electives (Major)		6
GOV 312L	Issues and Policies in American Government (Core) ⁰⁷⁰	3
Visual and Performing Arts (Core) ⁰⁵⁰		3
8th Semester		
COE 374	Senior Design Project (Major)	3
Technical electives (Major)		6
U.S. History (Core) ⁰⁶⁰		3
Total Hours		122

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.