

General Education (choose at least 24 hours)

For detailed GE curriculum requirements and course lists visit advising.engineering.osu.edu

Department of Computer Science and Engineering

BS CSE Requirements

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General College of Engineer	ing Requirements	Hours				
Engr 1100	Introduction to Ohio State and Computer Science and Engineering					
Engr 1181 and Engr 1182	Fundamentals of Engineering I and II					
Math 1151 and Math 1172	Calculus I and Engineering Mathematics A	10				
Physics 1250	Mechanics, Thermal Physics, Waves	5				
Computer Science Core						
CSE 2221 and CSE 2231	Software I: Software Components and Software II: Software Development and Design	8				
CSE 2321 and CSE 2331	Foundations I: Discrete Structures and Foundations II: Data Structures and Algorithms	6				
CSE 2421 and CSE 2431	Systems I: Introduction to Low-Level Programming and Computer Organization and Systems II: Introduction to Operating Systems	7				
CSE 3341	Principles of Programming Languages	3				
Choose one of the following:						
CSE 2501	Social, Ethical, and Professional Issues in Computing	1				
Philos 1338	Ethics in the Professions: Introduction to Computing Ethics and Effective Presentation	4				
Non-Computer Science Core						
ECE 2020 and ECE 2060	Introduction to Analog Systems and Circuits and Introduction to Digital Logic	6				
Math 2568 and Math 3345	Linear Algebra and Foundations of Higher Mathematics	6				
Stat 3470	Introduction to Probability and Statistics for Engineers	3				
Computer Science Core Choices (requirements for specialization option may dictate core choices)						
CSE 3231 or CSE 3241	Software Engineering Techniques or Introduction to Database Systems	3				
CSE 3421 or CSE 3461	Introduction to Computer Architecture or Computer Networking and Internet Technologies	3				
CSE 3521 or CSE 3541	Survey of Artificial Intelligence I: Basic Techniques or Computer Game and Animation Techniques	3				
Choose one of the following:						
CSE 3901	Project: Design, Development, and Documentation of Web Applications	4				
CSE 3902	Project: Design, Development, and Documentation of Interactive Systems	4				
CSE 3903	Project: Design, Development, and Documentation of System Software	4				
Choose one of the following:						
CSE 5911	Capstone Design: Software Applications	4				
CSE 5912	Capstone Design: Game Design and Development	4				
CSE 5913	Capstone Design: Computer Animation	4				
CSE 5914	Capstone Design: Knowledge-Based Systems	4				
CSE 5915	Capstone Design: Information Systems	4				
CSE Math and Science Electi	ves (choose at least 8 hours)					
Math 2153	Calculus III	4				
Math 2255 or Math 2415	Differential Equations and Their Applications or Ordinary and Partial Differential Equations	3				
Stat 4201	Introduction to Mathematical Statistics I	4				
Stat 5301	Intermediate Data Analysis I	4				
Anthrop 2200	Introduction to Physical Anthropology	4				
Biology 1113	Biological Sciences: Energy Transfer and Development	4				
Biology 1114	Biological Sciences: Form, Function, Diversity, and Ecology	4				
Chem 1210	General Chemistry I	5				
Chem 1250	General Chemistry for Engineers	4				
EarthSc 1121	The Dynamic Earth	4				
EarthSc 1122	Earth Through Time	4				
ENR 2100	Introduction to Environmental Science	3				
ENR 3000 and ENR 3001	Soil Science and Soil Science Laboratory	4				
FdScTe 2200	The Science of Food	3				
HCS 2201	Ecology of Managed Plant Systems	4				
HCS 2202	Form and Function in Cultivated Plants	4				
Physics 1251	E&M, Optics, Modern Physics	5				
,	CSE Technical Electives (choose at least 17 hours that meet the following criteria) Any CSE course 3000-level or above not already used to fulfill another requirement					
Requirements for specialization option may dictate technical elective choices						
At most 2 hours of CSE 4251-4256						
At most 2 hours of CSE 4193(H), 3 hours of 4998(H), or 6 hours of 4999(H) AND no more than 6 hours total of 4193/4998/4999 combined						
At most 8 hours of non-CSE courses at the 2000-level and above approved by the academic advisor						
Concret Education (change at least 24 hours)						

BS CSE Sample Schedule

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	Autumn		Spring			
Year 1	Engr 1100	1	CSE 2221	4		
	Engr 1181	2	Engr 1182	2		
	Math 1151	5	Math 1172	5		
	Physics 1250	5	English 1110	3		
	CSE 1223	3	GE	3		
		16		17		
Year 2	CSE 2231	4	CSE 2331	3		
	CSE 2321	3	CSE 2421	4		
	Stat 3470	3	ECE 2060	3		
	Math or Science Elective	3-5	Math 3345	3		
	GE	3	GE	3		
		16-18		16		
Year 3	CSE 2431	3	CSE 32X1	3		
	CSE 390X	4	CSE 34X1	3		
	ECE 2020	3	CSE 35X1	3		
	Math 2568	3	CSE 2501	1		
	GE	3	Math or Science Elective	3-5		
			GE	3		
		17		16-18		
Year 4	CSE 3341	3	CSE 591X	4		
	Technical Elective	3	Technical Elective	3		
	Technical Elective	3	Technical Elective	3		
	Technical Elective	3	Technical Elective	2		
	GE	3	GE	3		
		15		15		

An application to the major must be submitted online at https://advising.engineering.osu.edu/currentstudents/applying-your-major during the term in which admission requirements are being completed

Note: Majors must select a specialization option. Requirements for the specialization options generally dictate core and technical elective choices.