

OSU CSE Graduation Requirements

Major Requirements

Basic math and science requirements

- 30 HR min.

General college of engineering requirements

- Survey courses. **(completed)**
- Intro to engineering - choose two courses:
 - ENGR 1181 OR 1281,1182 OR 1282
- Or intro to engineering (transfer) - take all courses:
 - ENGR 1186 OR 1182,1187 OR 1181,1188 OR 1182
- Engineering calculus I: **(in progress)**
 - 1151
- Engineering calculus II:
 - Calculus II:
 - MATH 1152, 1181H, 4181H
 - Calculus II:
 - MATH 2153, 2162, 2182H, 4182H
- Physics I
 - PHYSICS 1250

Math and science electives - minimum 8 HR

- ANTHROP 2200 BIOLOGY 1113.01 OR 1113.02 OR BIOLOGY 1113E OR 1113H,1114.01 OR 1114.02 OR 1114E
- OR 1114H CHEM 1210,1220,1250 EARTHSC 1121,2122, EARTHSC 1151,1911 ENR 2100,3000 & 3001 FDSCTE 2200 GEOG 1900,3900 HCS 2201,2202 MATH 2255,2415,2153
- OR 2162 OR 2173 OR 2177 PHYSICS 1251 OR 1261 STAT 4201,5301

Computer science engineering required non-major coursework

- Intro to analog system and circuits:
 - ECE 2020
- Intro to digital logic
 - ECE 2060
- Math and Statistics - take three courses:
 - MATH 2568 OR 5520H, 3345 OR 4181H
 - STAT 3470.01 OR 3470.02

CSE major core part1

No.	Name	Prerequisite
2221	Software I	CSE 1223, MATH 1151
2231	Software II	CSE 2221

No.	Name	Prerequisite
2321	Foundations I: Discrete Structures	CSE 2221, MATH 1151
2331	Foundations II: Data Structures and Algorithms	CSE 2231, CSE 2321, STAT 3460 or 3470
2431	Systems II: Introduction to Operating Systems	CSE 2421, or CSE 2451 and ECE 2560, enrolled in CS majors
3341	Principles of Programming Languages	CSE 2231, CSE 2331, CSE 2421, and CSE 3901, CSE3902, or CSE 3903

Ethics in computing

CSE 2501	Social, Ethical, and Professional Issues in Computing	2122, 2123, or 2231; and Gen Ed Writing: Level 2
PHILOS 1338	Ethics in the Professions: Introduction to Computing Ethics and Effective Presentation	N/A

CSE senior capstone design (choose one)

CSE 5911	Capstone Design: Software Applications	CSE 3231 or CSE 5231, CSE 2501 or PHILOS 1338, CSE 3901 or 3902 or 3903, second writing course
CSE 5912	Capstone Design: Game Design and Development	
CSE 5913	N/A	N/A
CSE 5914	Capstone Design: Knowledge-Based Systems	
CSE 5915	Capstone Design: Information Systems	
CSE 5916	Capstone Design: Research-Focused Projects	

CSE major core part2

- Choice 1:
 - CSE 3231.
- Choice 2 - choose one for each set:
 - CSE 3901 OR 3902 OR 3903, 3421 OR 3461, 3521 OR 3541

CSE Tech elective:

- CSE technical electives - 9HR min.

- CSE non-technical electives - 8HR max or a minor. (**acquired 3 HR from ECON**)

Prerequisites not covered in the major core:

- STAT 3460 or 3470.
- CSE 2421, or CSE 2451 and ECE 2560.
- CSE 3901, CSE3902, or CSE 3903.
- CSE 3901 or 3902 or 3903.

GE Requirements

GE launch seminar - 1HR (**in progress**)

Foundations

- Writing and information literacy
 - ENGLISH 1110.01 (**in progress**)
- Mathematical and quantitative reasoning or data analysis
 - MATH 1151 (**in progress**)
- Literary, Visual, and Performing Arts - one course.
- Historical and cultural studies
 - CLAS 2202 (**in progress**)
- Natural science - 4HR min.
- Social and behavioral sciences
 - ECON 2001.01 (**completed by AP**)
- Race, ethnicity and gender diversity - one course.
- GE reflection seminar.

Thematic pathways

- Citizenship for a diverse and just world theme - 4-6 HR min .
- Additional theme - 4-6 HR min.

Minor requirements (Statistics)

No.	Name	Prerequisite
3201	Introduction to Probability for Data Analytics	MATH 1151
3202	Introduction to Statistical Inference for Data Analytics	STAT 3201
3301	Statistical Modeling for Discovery I	STAT 3202, concurrent MATH 2568
3302 or 3410	Principles of Data Collection and Analysis	STAT 3202