Pre/Co Req

1. CSE 1310 Introduction to Programming (prerequisite: MATH 1302)
2. CSE 1205 Introduction to CSE
3. CSE 1320 Intermediate Programming (coreq: Math 1421)
4. CSE 2315 Discrete Structures
5. CSE 1325 Object-Oriented Programming
6. CSE 2312 Computer Organization
7. CSE 2441 Digital Logic
8. CSE 3318 Algorithms & Data Structures
9. CSE 2440 Circuits & Signals
10. CSE 3380 Linear Algebra
11. ENGR 1250 or ENGR 1251

Pre-Requisite

1. CSE 2310 Introduction to Programming
2. CSE 1320 Intermediate Programming
3. MATH 1426 Calculus I
4. MATH 2425 Calculus II
5. PHYS 1443 Technical Physics I
6. PHYS 1444 Technical Physics II
7. ENGL 1301

Math and Science Electives

- 3 hours of Math electives
- 4 hours of Science electives

see list of approved courses in CpE Program Guide.

General Education

- Language/Philosophy/Culture elective
- POLS 2311
- POLS 2312
- Creative Arts elective
- Social/Behavioral (IE 2308 or ECON 2305)
- 6 hours of HIST electives

Foreign Language

If required, two semesters of the same language

The Senior Design courses must be taken in consecutive semesters: (Fall and Spring), (Spring and Summer), or (Summer and Fall). Spring and Fall is NOT an option.
Mathematics Electives

- MATH 2326 - Calculus III
- CSE 3315 - Theoretical Concepts in CSE
- CSE 4345 - Computational Methods

Science Electives

- BIOL 1441 – Cell and Molecular Biology
- CHEM 1441 – General Chemistry
- CHEM 1465 – Chemistry for Engineers
- PHYS 3313 + PHYS 3188 – Intro to Modern Physics with lab

Technical Electives

You need to complete three tech electives for your degree plan, but you are only allowed to take ONE of the following:

- CSE 4308, CSE 4309, CSE 4310, CSE 4340, CSE 4360, CSE 4378, and CSE 4380.

- CSE 4308 – Artificial Intelligence
  prereqs: CSE 3318, and CSE 3380 or MATH 3330

- CSE 4309 – Fundamentals of Machine Learning
  prereqs: CSE 3318, IE 3301 or MATH 3313, and CSE 3380 or MATH 3330

- CSE 4310 - Fundamentals of Computer Vision
  prereqs: CSE 3318, IE 3301 or MATH 3313, CSE 3380 or MATH 3330

- CSE 4340 – Fundamentals of Wireless Networks
  prereqs: CSE 4344 or CSE 4352

- CSE 4352 – IoT and Networking
  prereqs: CSE 3442 (Spring only)

- CSE 4354 – Real-time Operating Systems
  prereqs: CSE 3320 and CSE 3442 (Fall only)

- CSE 4355 – Electromechanical Systems and Sensors
  prereqs: CSE 3323 and CSE 3442 (Fall only)

- CSE 4356 – System on Chip (SoC) Design
  prereqs: CSE 3442 (Fall only)

- CSE 4357 – Advanced Digital Logic Design
  prereqs: CSE 3442 (Spring only)

- CSE 4358 – Microprocessor Systems
  prereqs: CSE 3323 (Spring only)

- CSE 4360 - Autonomous Robot Design and Programming
  prereqs: CSE 3318, CSE 3320, and CSE 3380 or MATH 3330 (Fall only)

- CSE 4378 – Intro to Unmanned Vehicle Systems
  prereqs: Admission to the professional program and permission from an advisor

- CSE 4380 – Information Security
  prereqs: CSE 3320

Language, Philosophy & Culture

- ANTHROPOLOGY (ANTH) 2322
- ARABIC (ARAB) 2310, 2314
- ARCHITECTURE (ARCH) 2300
- ART & ART HISTORY (ART) 1317
- CHINESE (CHIN) 2310, 2314
- CLASSICS (CLAS) 1300
- ENGLISH (ENGL) 2303, 2309, 2319, 2329
- FRENCH (FREN) 2310, 2314
- GERMAN (GERM) 2310, 2314
- GLOBAL (GLOBAL) 2301
- GREEK (GREK) 2314
- HISTORY (HIST) 2377
- INTERDISCIPLINARY STUDIES (INTS) 1310
- KOREAN (KORE) 2310, 2314
- LATIN (LATN) 2314
- LINGUISTICS (LING) 2371
- MEXICAN AMERICAN STUDIES (MAS) 2300
- PHILOSOPHY (PHIL) 1304, 2300
- PORTUGUESE (PORT) 2314
- RUSSIAN (RUSS) 2310, 2314
- SOCIOLOGY (SOCI) 1310
- SPANISH (SPAN) 2310, 2314

Creative Arts Electives

- ARCHITECTURE (ARCH) 1301
- ART & ART HISTORY (ART) 1301, 1309, 1310
- DANCE (DNCE) 1300
- MUSIC (MUSI) 1300, 1302, 2300, 2301
- THEATER ARTS (THEA) 1342, 1343

History Electives

- HIST 1301
- HIST 1302