Pre-professional Courses

- CSE 1310 Intro to Programming (prerequisite: MATH 1302)
- CSE 1320 Intermediate Programming (coreq: Math 1421)
- CSE 1325 Object-Oriented Programming
- CSE 2312 Computer Organization
- CSE 2100 Practical Systems
- CSE 2441 Digital Logic
- CSE 2315 Discrete Structures
- CSE 2318 (2320) Algorithms & Data Structures
- CSE 3313 Signal Processing
- CSE 3320 Operating Systems
- CSE 3325 Linear Algebra

Prerequisites:
- MATH 1302
- ENGR 1301

Foreign Language
- If required, two semesters of the same language

General Education
- Language/Philosophy/Culture elective
- HIST 1301
- HIST 1302
- POLS 2311
- POLS 2312
- Creative Arts elective
- Social/Behavioral (IE 2308 or ECON 2305)

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

See list of approved courses in CpE Program Guide.

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

See list of approved courses in the Computer Engineering Program Guide. Remember to check prerequisites.

4000 Level Courses

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.
CPE 2019-2020 Classes

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

Technical Electives

• CSE 4310 - Fundamentals of Computer Vision
  prereqs: CSE 3318, IE 3301 or MATH 3313, CSE 3380 or
  MATH 3330 (Spring only)

• 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 – Electomechanical 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)

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