Pre-Professional Courses

- CSE 1310 Intro to Programming (prerequisite: MATH 1302)
- CSE 1105 Intro to CSE
- ENGR 1250 (Co-req: MATH 1421 or above)
- MATH 1426 Calculus I
- PHYS 1443 Technical Physics I

- CSE 1320 Intermediate Programming (coreq: Math 1421)
- CSE 2315 Discrete Structures
- MATH 2425 Calculus II
- PHYS 1444 Technical Physics II

- CSE 1325 Object-Oriented Programming
- CSE 2312 Computer Organization
- CSE 2100 Practical Systems
- CSE 2441 Digital Logic
- CSE 3318 (2320) Algorithms & Data Structures
- CSE 3320 Operating Systems
- CSE 3380 Linear Algebra

- CSE 3442 Embedded I
- CSE 3313 Signal Processing
- CSE 4320 Quan. Computer Arch.
- CSE 4342 Embedded II

- CSE 2440 Circuit Analysis
- CSE 2441 Digital Logic
- CSE 2440 Circuit Analysis
- CSE 3314 Professional Practices (PreReq: COMS 2302 and CSE 3316)
- CSE 3317 Senior Design II

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 hour Math elective
- 4 hour Science elective

Math and Science Electives
- 3 Technical Elective courses

See list of approved courses on second page
Remember to check prerequisites.

UNIV 1131 (freshman students only)
OR
ENGR 1101 (transfer students)

CSE 1105 Intro to CSE
CSE 2100 Practical Systems
CSE 2441 Digital Logic
CSE 3318 (2320) Algorithms & Data Structures
CSE 3320 Operating Systems
CSE 3380 Linear Algebra
CSE 3325 Object-Oriented Programming
CSE 3442 Embedded I
CSE 3313 Signal Processing
CSE 3320 Operating Systems
CSE 3442 Embedded II
CSE 4323 Quan. Computer Arch.
CSE 4316 Senior Design I
CSE 4317 Senior Design II

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 (Fluctuates)
- 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 3442 (Spring only)
- CSE 4360 - Autonomous Robot Design and Programming
  prereqs: CSE 3318, CSE 3320, and CSE 3380 or MATH 3330 (Fall only)
- CSE 4372 – RISC Processor Design
  prereqs: CSE 3442 (Spring only)
- CSE 4373 – General Purpose GPU Programming
  prereqs: CSE 3320 (Fall only)
- CSE 4376 – Digital Communication Systems
  prereqs: CSE 3313 (Fall only)
- CSE 4377 – Wireless Communication Systems
  prereqs: CSE 3313 (Spring only)

Language, Philosophy & Culture Electives
- ANTHROPOLOGY (ANTH) 2322
- ARABIC (ARAB) 2310, 2314
- ARCHITECTURE (ARCH) 2300
- ART & ART HISTORY (ART) 1317
- American Sign Lang. (ASL) 2314
- CHINESE (CHIN) 2310, 2314
- CLASSICS (CLAS) 1300
- INTRO TO LGBTQ+ STUDIES (DIVR/WOMS) 2315
- ENGLISH (ENGL) 2303, 2309, 2319, 2329
- FRENCH (FREN) 2310, 2314
- GERMAN (GERM) 2310, 2314
- GLOBAL (GLOBAL) 2301
- GREEK (GREK) 2314
- HISTORY (HIST) 2377
- 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
- INTRO TO POPULAR CULTURE (SOCI/INTS) 1310
- SPANISH (SPAN) 2310, 2314, 2315

Creative Arts Electives
- ARCHITECTURE (ARCH) 1301
- ART & ART HISTORY (ART) 1301, 1309, 1310
- DANCE (DNCE) 1300
- ENGLISH (ENGL) 1375
- MUSIC (MUSI) 1300, 1302, 1304, 2300, 2301
- THEATER ARTS (THEA) 1342, 1343

History Electives
- HIST 1301
- HIST 1302
- HIST 1331
- HIST 1332