**COMPUTER ENGINEERING (CEEN) - DEGREE PLAN**

**Total credits required:** 128  
**Catalog Edition:** 140  
**Students entering 2017-18**

### FRESHMAN (16 Credits)
- **ENGR 111 - Foundations of Engineering I**  
  MATH 151c  
  CR 2  T-P 1-3  
- **MATH 151 - Engineering Math I**  
  MATH 150 or MPE Acceptable Score  
  CR 4  T-P 3-2  
- **PHYS 218 - Mechanics**  
  MATH 151c  
  CR 4  T-P 3-3  
- **ENGL 104 - Composition and Rhetoric**  
  CR 3  T-P 3-0  
- **University Core Curriculum**  
  See university approved list  
  CR 3  T-P 3-0

### SOPHOMORE (17 Credits)
- **CSCE 121 - Intro Prog Design & Concepts**  
  Engr 112 or Programming Course  
  CR 4  T-P 3-2  
- **MATH 251 - Engineering Math III**  
  MATH 152  
  CR 3  T-P 3-0  
- **ECEN 248 - Digital System Design**  
  PHYS 208; MATH 152  
  CR 4  T-P 3-3  
- **ECEN 222 - Discrete Structures for Computing**  
  MATH 151  
  CR 3  T-P 3-0  
- **Communications Elective**  
  See university approved list  
  CR 3  T-P 3-0

### JUNIOR (15 Credits)
- **MATH 311 - Topics in Applied Math I**  
  MATH 251; 308c  
  CR 3  T-P 3-0  
- **CSCE 313 - Introduction to Computer Systems**  
  CSCE 221; ECEN 350c  
  CR 4  T-P 3-2  
- **ECEN 314 - Signals and Systems**  
  ECEN 214; MATH 308  
  CR 3  T-P 3-1  
- **ECEN 350 - Computer Architecture and Design**  
  ECEN 248  
  CR 4  T-P 3-3  
- **CSCE 481 - Seminar**  
  Junior/Senior Classification  
  CR 1  T-P 0-2

### SENIOR (16 Credits)
- **ECEN 403 - Electrical Design Lab I**  
  Comm;ECEN 314;325;350;449; CSCE 315; STAT 211 or ECEN 303  
  CR 3  T-P 2-3  
- **ECEN 404 - Electrical Design Lab II**  
  ECEN 403  
  CR 3  T-P 2-3  
- **ECN Elective**  
  See department approved list  
  CR 3  T-P 3-0  
- **Engineering Elective**  
  See department approved list  
  CR 3  T-P 3-0  
- **ENGR/PHIL 482 - Ethics and Engineering**  
  Junior classification  
  CR 3  T-P 3-0  
- **ICD Elective**  
  See university approved list  
  CR 3  T-P 3-0

### ECEN 399 - ENGR (3-0)
- **ECEN 248; ECEN 214**  

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A Students must select from: POLS 206 & 207 (3 cr each), American History (6 cr), Social and Behavioral Sciences Elective (3 cr), Creative Arts Elective (3 cr), and International and Cultural Diversity (ICD) Electives (6 cr). Some ICD Electives also count toward Creative Arts, Social and Behavioral Sciences or American History. See TAMU catalog for complete list of approved courses: http://catalog.tamu.edu.

B Select from ENGL 210, COMM 205 or 243.

C ECEN 303 has a prerequisite of MATH 308. STAT 211 has a prerequisite of MATH 152. Students intending to specialize in Communications are encouraged to take ECEN 303.

D See advising office for list of approved electives.

E ENGR/PHIL 482 also fulfills the UCC Language, Philosophy & Culture requirement.

X See Department approved list.

- **Courses in bold** must be completed with a C or better.
- Two years of the same foreign language/sign language (high school) or two semesters of the same foreign language (college) are required for graduation.
- Prerequisite courses followed by a "c" indicate corequisites and may be taken concurrently.