# B.S. in ELECTRICAL ENGINEERING  
## Suggested 4-Year Academic Flowchart  
### 2015-2017 Catalog

**Fall** | **Spring** | **Fall** | **Spring** | **Fall** | **Spring** | **Fall** | **Spring**  
---|---|---|---|---|---|---|---  
**FRESHMAN**  
- Introduction to Electrical Engineering & Lab  
  - EE 111 (1) 
  - EE 151 (4)  
- Basic Electronics Manufacturing  
  - EN 156 (2)  
- Calculus I  
  - MATH 141 (4)  
- Calculus II  
  - MATH 142 (4)  
- Calculus III  
  - MATH 143 (4)  
- General Chemistry for Physical Science & Engineering I  
  - CHEM 124 (4)  
- General Physics IA  
  - PHYS 141 (4)  
- General Physics III  
  - PHYS 143 (4)  
- GE (4) **  
  - **CSC/CPE 101**  
- Oral Communication  
  - COMS 101 or 102 (4) **  
- Introductory Writing  
  - ENGL 133 or 134 (4) **  
  - ** (A1)  
- Civic Engagement **  
  - ( minion: 3 hours)  
- Technical Writing for Engineers  
  - ENGL 349 (3)  
- Expository Writing  
  - ENGL 349 or 393 (3)  
  - (A1)  
  - Can be taken anytime during Freshman Year  
- Calculus IV  
  - MATH 241 (4)  
- Linear Analysis I  
  - MATH 244 (4)  
- Modern Physics I  
  - PHYS 211 (4)  
- Probability and Random Processes for Engineers  
  - STAT 350 (4)  
- Introduction to Communication Systems  
  - EE 302 (4)  
- Electromagnetic Fields & Transmission & Lab  
  - EE 335 (4) & EE 370 (4)  
- Senior Project Preparation  
  - EE 460 (3)  
- Approved Engineering Support Electives  
  - EE 309 (3) & EE 409 (3)  
  - (4)  
- Approved Engineering Support Electives  
  - EE 410 (3)  
- Approved Engineering Support Electives  
  - EE 411 (3)  
- Approved Engineering Support Electives  
  - EE 412 (3)  
- Approved Engineering Support Electives  
  - EE 413 (3)  
- Approved Engineering Support Electives  
  - EE 414 (3)  
- Approved Engineering Support Electives  
  - EE 415 (3)  
- Approved Engineering Support Electives  
  - EE 416 (3)  
- ** (A2)  
  - Can be taken anytime during Freshman Year  
- Technical Writing for Engineers  
  - (Completion of GE A2)  
- GPA  
  - (Completion of GE A2)  
  - Can be taken anytime between Winter of Freshman and Winter of Sophomore Years  
- Oral Communication  
  - COMS 101 or 102 (4) **  
  - (A2)  
- Technical Writing for Engineers  
  - ENGL 349 (3)  
- Introductory Writing  
  - ENGL 349 or 393 (3)  
  - (A1)  
- Expository Writing  
  - ENGL 349 or 393 (3)  
  - (A1)  
- Calculus IV  
  - MATH 241 (4)  
- Linear Analysis I  
  - MATH 244 (4)  
- Modern Physics I  
  - PHYS 211 (4)  
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- Approved Engineering Support Electives  
  - EE 414 (3)  
- Approved Engineering Support Electives  
  - EE 415 (3)  
- Approved Engineering Support Electives  
  - EE 416 (3)  
- ** (A2)  
  - Can be taken anytime during Freshman Year  
- GPA  
  - (Completion of GE A2)  
  - Can be taken anytime between Winter of Freshman and Winter of Sophomore Years  

### Notes
- **MOST General Education Courses Can Be Taken in Any Order as Long as Prerequisites Are Met**
  - Refer to current catalog for prerequisites.
  - **One course from each of the following GE areas must be completed:** A1, A2, C1, C2, C3, C4, D1, D2, D3, D4, D5 should be taken only after Junior standing is reached (90 units).
- **Student should consult catalog for course selection.**
- Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR). USCP requirement can be satisfied by some (but not all) courses within GE categories: C3, C4, D1, or D2.
- **Major Courses Should Be Taken in Quarters Designated on This EE Flowchart**
  - Courses can be taken previously or concurrently.
  - Courses CPE/EE 129 (3) and CPE/EE 169 (1) may substitute for CPE/EE 133 (4).
  - Courses CPE/EE 229 (3) and CPE/EE 269 (1) may substitute for CPE/EE 233 (4).