# Computer Engineering

**FRESHMAN FALL**
- **ECE 1400** Computer Programming 1
- **Math 1210** Calculus 1
- **General Education** Breadth Course (BHU)
- **General Education** Breadth Course (BAI)
- **General Education** Breadth Course (BCA)

**FRESHMAN SPRING**
- **ECE 1410** Computer Programming 2
- **Math 1220** Calculus 2
- **ECE 2700** Digital Circuits
- **Phys 2210** Physics 1
- **Phys 2215** Physics 1 Lab

**SOPHOMORE FALL**
- **CS 2420** Algorithms & Data Structures
- **ECE 2290** Electrical Circuits 1
- **Engr 2010** Intermediate Writing
- **Math 2270** Linear Algebra
- **Phys 2220** Physics 2
- **Phys 2225** Physics 2 Lab

**SOPHOMORE SPRING**
- **ECE 3700** Digital System Design
- **ECE 2290** Electrical Circuits 2
- **Math 2280** Differential Equations
- **Math/Science Elective** See approved list
- **General Education** Breadth Course (BLS)

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**JUNIOR FALL**
- **ECE 3620** Continuous Time Systems
- **ECE 3710** Microcontrollers
- **ECE 3720** Comp. Sys. Programming
- **Math 3310** Discrete Mathematics
- **General Education** Breadth Course (DSS)

**JUNIOR SPRING**
- **ECE 3410** Microelectronics 1
- **ECE 3810** Engineering Professionalism
- **Engr 3080** Technical Communication
- **Stat 3000 or Math 5710** Statistics or Probability
- **Technical Elective** Core Comp. Engr. Elective

**SENIOR FALL**
- **ECE 4820** Computer Engr. Design 1
- **ECE 4830** Engineering Comm. 1
- **Engr 3080** Intro. to Computer Networks
- **Technical Elective** High Level Elective
- **Technical Elective** Core Comp. Engr. Elective
- **Technical Elective** Core Comp. Engr. Elective
- **Technical Elective** Core Comp. Engr. Elective
- **General Education** Breadth Course (BSS)

**SENIOR SPRING**
- **ECE 4840** Computer Engr. Design 2
- **ECE 4850** Engineering Comm. 2
- **Technical Elective** High Level Elective
- **Technical Elective** Core Comp. Engr. Elective
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- **General Education** Breadth Course (DHA)

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**Total Credits Required** 126

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**University Requirements**
- English 1010 is a University requirement and is a prerequisite for English 2010. An English ACT score of 29+ or an SAT verbal score of 640+ will fulfill the English 1010 requirement.
- No more than three total repeats for Professional Program courses
- Minimum 2.0 Professional GPA
- Up to 10 "D" credits are allowed (all other grades must be a C- or better)
- 1 High Level Technical Elective course must have an ECE prefix
- Complete courses marked with an asterisk (*)
- No more than three total repeats for PPRU courses
- Minimum 2.8 PPRU GPA
- Minimum grade of C- for PPRU courses
- Must pass Java competency test for CS 2420.

**Pre-Professional Program (PPRU) Requirements**

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**Abbreviations:** (CR) Credits  * (SEM) Semester  * (F) Fall  * (Sp) Spring  * (Su) Summer
Any discrepancy between this chart and the 2022-23 General Catalog is resolved in favor of the General Catalog.

* Required for admission to Professional Program.
^ Must pass Java competency exam.
~ See general catalog for prerequisites to STAT 3000 and MATH 5710

ACADEMIC YEAR
2022-23

COMPUTER ENGINEERING RECOMMENDED FOUR-YEAR CURRICULUM