### Introduction to Digital Logic Design

**Freshman Year - Fall**
- CHEM 150 Chemistry for Engineers***
- ENGL 101 Composition (or any KU Core GE 2.1)
- MATH 125a Calculus I
- ME 228 Computer Graphics
- PHSX 150 Seminar in Phys., Astr., & Engineering Physics
- TOTAL HOURS: 15.5

**Freshman Year - Spring**
- EECS 168b Programming I
- ENGL 102b Critical Reading & Writing (or any KU Core GE 2.1)
- MATH 126b Calculus II
- PHSX 211 General Physics I, and
- PHSX 216 General Physics I Laboratory
- or
- PHSX 213 General Physics I Honors
- TOTAL HOURS: 16

**Sophomore Year - Fall**
- EECS 211 Circuits I
- EECS 140b Introduction to Digital Logic Design
- MATH 127b Calculus III
- MATH 209b Elementary Linear Algebra
- PHSX 212 General Physics II, and
- PHSX 236 General Physics II Laboratory
- or
- PHSX 214 General Physics II Honors
- TOTAL HOURS: 16

**Sophomore Year - Spring**
- EECS 212 Circuits II
- EECS 268 Programming II
- MATH 220b Applied Differential Equations, or...
- MATH 320 Elementary Differential Equations
- ME 210 Statics and Intro to Mechanics
- PHSX 313 General Physics III
- PHSX 316 Intermediate Physics Lab
- TOTAL HOURS: 16

**Junior Year - Fall**
- EECS 360 Signal & System Analysis
- EPHX 521 Mechanics I
- ME 311 Mechanics of Materials
- ME 312 Basic Engineering Thermodynamics
- KU Core Elective**
- TOTAL HOURS: 17

**Junior Year - Spring**
- EECS 312 Electronic Circuits I
- EPHX 511 Introductory Quantum Mechanics
- ME 501 Mechanical Engineering Design Process
- ME 628 Mechanical Design I
- KU Core Elective**
- TOTAL HOURS: 15

**Senior Year - Fall**
- EECS 444 Control Systems
- EPHX 601 Design of Physical and Electronic Systems
- ME 641/642/643/644/645 Capstone Design Project
- KU Core Elective**
- TOTAL HOURS: 15

**Senior Year - Spring**
- PHSX / EPHX 601

### Curriculum Notes

- Students must ensure the electives they choose fulfill all remaining KU Core requirements.
- ME 642 (Design Project B – Formula Car) requires ME 627 to be taken in the previous semester as the engineering elective. ME 643 (Design Project C – Biomechanics) requires ME 633 to be taken in the previous semester as the engineering elective. ME 641 (Design Project A) is also available, but has several prerequisite courses that would need to be taken.
- CHEM 130b can be substituted for CHEM 150.
- Honors equivalent course is available.

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**KU School of Engineering**

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**Information appearing in this guide is subject to change. Please talk with your departmental adviser about degree requirements on a regular basis.**

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**KU Core Elective**

**KU Core Distribution**

### Critical Thinking & Quantitative Literacy
- GE 1.1 Critical Thinking: PHSX 211
- GE 1.2 Quantitative Literacy: MATH 125

### Communication
- GE 2.1 Written Communication: Meet via KU Core Requirements
- GE 2.2 Oral Communication: Meet via KU Core Requirements

### Breadth of Knowledge
- GE 3H Arts & Humanities: 1 course from KU Core List
- GE 3N Natural Sciences: CHEM 150
- GE 3S Social Sciences: Meet via KU Core Requirements

### Culture & Diversity
- AE 4.1 Diversity in United States: Meet via KU Core Requirements
- AE 4.2 Global Awareness: Meet via KU Core Requirements

### Social Responsibility & Ethics
- AE 5 Ethics & Social Responsibility: PHSX 216, 316 and EPHX 516 (pending approval)

### Integration & Creativity
- AE 6 Capstone: PHSX / EPHX 601

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