### FIRST YEAR

#### FALL SEMESTER

- **WRIT 150**

#### SPRING SEMESTER

- **MATH 125 (GE F)**
- **EE 109L**
- **CSCI 103**
- **ENGR 102**

### SECOND YEAR

#### FALL SEMESTER

- **PHYS 152L**
- **MATH 226 or MATH 229**
- **CSCI 201L**
- **EE 250**

#### SPRING SEMESTER

- **MATH 225**
- **CSCI 270**
- **EE 354L**

### THIRD YEAR

#### FALL SEMESTER

- **GE A**
- **WRT 340**
- **E E 457**

#### SPRING SEMESTER

- **GE B**
- **Tech. Elective I**
- **GE D**

### FOURTH YEAR

#### FALL SEMESTER

- **GE B**
- **Tech. Elective II**
- **CSCI 353**
- **EE 451L or EE 454L or EE 477L**

#### SPRING SEMESTER

- **GE C**
- **CSCI 401L or EE 404L**
- **REQUIRED ELECTIVE**

### MATHEMATICS (16 UNITS)

- **MATH 125**: Calculus I
- **MATH 126 or 129**: Calculus II
- **MATH 226 or 229**: Calculus III
- **MATH 225**: Linear Algebra & Diff. Equations
- **MATH 364**: Intro to Probability & Statistics
- **MATH 407**: Probability Theory

### PHYSICS (8 UNITS)

- **PHYS 151L**: Mechanics and Thermodynamics
- **PHYS 152L**: Electricity and Magnetism
- **PHYS 161**: Advanced Principles of Physics I
- **PHYS 162**: Advanced Principles of Physics II
- **PHYS 171**: Applied Physics I: Mechanics
- **PHYS 172**: Applied Physics II: Electricity, Magnetism and Optics

### GENERAL EDUCATION (32 UNITS)

- **GE A**: The Arts (1 Course)
- **GE B**: Humanistic Inquiry (2 Courses)
- **GE C**: Social Analysis (2 Courses)
- **GE D**: Life Sciences (1 Course)
- **GE E**: Physical Sciences (1 Course)
- **GE F**: Quantitative Reasoning (1 Course)
- **GE G, H**: Global Perspectives (2 Courses)

### WRITING (7 UNITS)

- **WRIT 150**: Writing and Critical Reasoning
- **WRIT 340**: Advanced Writing

### ENGINEERING (65-66 UNITS)

- **CSCI 103L**: Introduction to Programming
- **CSCI 104L**: Data Structures & Object-Oriented Design
- **CSCI 170**: Discrete Methods in Comp. Science
- **CSCI 201L**: Intro. to Algorithms & Theory of Computing
- **CSCI 350**: Introduction to Operating Systems
- **CSCI 353**: Introduction to Internetworking
- **CSCI 401**: Capstone: Design of Large Software Systems
- **CSCI 404**: Capstone: Creating Your High-Tech Startup
- **EE 109**: Introduction to Embedded Systems
- **EE 250**: Distributed Systems for the Internet of Things
- **EE 354L**: Introduction to Digital Circuits
- **EE 457**: Computer Systems Organization
- **EE 451L**: Parallel and Distributed Computation
- **EE 454L**: Intro. to Sys. Using Microprocessors
- **ENGR 102**: Engineering Freshman Academy

### TECHNICAL ELECTIVES (8 UNITS)

- **FREE ELECTIVES (3-4 UNITS)**

### SPECIAL NOTES

Courses with the AP/IB symbol may be satisfied with AP, IB or A-Level exams. See page 17 for more information.

**GE**: Engineering students are encouraged to satisfy GE G and GE H with a course that also satisfies a Core Literacy. GE H may be satisfied by exam. Additionally, your GESM course should be taken in categories A, B, C, or D only. See page 21 for more information and consult your advisor for detailed assistance.

**GRADE QUALIFIER**: A grade of a C (2.0) or better is required for each of the core courses (CSCI 103, 170, 104 & 201). Courses with a grade of C– or below must be repeated; courses may only be retaken once with department approval.

**SENIOR DESIGN PROJECT**: CSCI 401 or EE 459L.

**TECHNICAL ELECTIVES**: See approved tech elective list on CS webpage.
# COMP. ENGR. & COMP SCI. (EMBEDDED SYS.)

## FIRST YEAR
### FALL SEMESTER
- **WRIT 150**
- **MATH 125 (GE F)**
- **EE 109L**
- **CSCI 103**
- **ENGR 102**

### SPRING SEMESTER
- **PHYS 151L (GE EE)**
- **MATH 126 or MATH 129**
- **CSCI 104L**
- **CSCI 170**
- **OPTIONAL ELECTIVE**

## SECOND YEAR
### FALL SEMESTER
- **PHYS 152L**
- **MATH 226 or MATH 229**
- **CSCI 270**
- **EE 250**
- **OPTIONAL ELECTIVE**

### SPRING SEMESTER
- **GE C**
- **MATH 225 (MATH 126 or MATH 129)**
- **EE 202L**
- **EE 354L**
- **OPTIONAL ELECTIVE**

## THIRD YEAR
### FALL SEMESTER
- **GE A**
- **EE 364 or MATH 407**
- **EE 301**
- **EE 457**
- **OPTIONAL ELECTIVE**

### SPRING SEMESTER
- **GE B**
- **TECH. ELECTIVE I**
- **CSCI 350**
- **WRIT 340**
- **REQUIRED ELECTIVE**

## FOURTH YEAR
### FALL SEMESTER
- **GE B**
- **TECH. ELECTIVE II**
- **CSCI 353**
- **EE 453**
- **REQUIRED ELECTIVE**

### SPRING SEMESTER
- **CSCI 430**
- **GE C**
- **EE 459**
- **GE D**
- **REQUIRED ELECTIVE**

### MATHEMATICS (16 UNITS)
- **MATH 125**: Calculus I
- **MATH 126 or 129**: Calculus II
- **MATH 225 or 229**: Calculus III
- **MATH 225**: Linear Algebra & Diff. Equations

### STATISTICS AND PROBABILITY (4 UNITS)
- **EE 364**: Intro to Probability & Statistics or MATH 407: Probability Theory

### PHYSICS (8 UNITS)
- **PHYS 151L**: Mechanics and Thermodynamics
- **PHYS 150L**: Electricity and Magnetism or
- **PHYS 161**: Advanced Principles of Physics I
- **PHYS 162**: Advanced Principles of Physics II or
- **PHYS 171**: Applied Physics I: Mechanics
- **PHYS 172**: Applied Physics II: Electricity, Magnetism and Optics

### GENERAL EDUCATION (32 UNITS)
- **GE A** The Arts (1 Course)
- **GE B** Humanistic Inquiry (2 Courses)
- **GE C** Social Analysis (2 Courses)
- **GE D** Life Sciences (1 Course)
- **GE E** Physical Sciences (1 Course)
- **GE F** Quantitative Reasoning (1 Course)
- **GE G, H** Global Perspectives (2 Courses)
- **GESM** General Education Seminar (1 Course)

### WRITING (7 UNITS)
- **WRIT 150**: Writing and Critical Reasoning
- **WRIT 340**: Advanced Writing

### ENGINEERING (65-66 UNITS)
- **CSCI 103L**: Introduction to Programming
- **CSCI 104L**: Data Structures & Object Oriented Design
- **CSCI 170**: Discrete Methods in Comp. Science
- **CSCI 430**: Introduction to Computer and Network Security
- **EE 109**: Introduction to Embedded Systems
- **EE 202**: Linear Circuits
- **EE 250**: Distributed Systems for the Internet of Things
- **EE 301**: Linear Systems
- **EE 354L**: Introduction to Digital Circuits
- **EE 453**: Computing Platforms & Paradigms
- **EE 457**: Computer Systems Organization
- **EE 459**: Embedded Systems Design Laboratory
- **ENGR 102**: Engineering Freshman Academy

### TECHNICAL ELECTIVES (8 UNITS)
- **FREE ELECTIVES (8 UNITS)**

### SPECIAL NOTES
Courses with the AP/IB symbol may be satisfied with AP, IB or A-Level exams. See page 17 for more information.

**GE**: Engineering students are encouraged to satisfy GE G and GE H with a course that also satisfies a Core Literacy. GE H may be satisfied by exam. Additionally, your GESM course should be taken in categories A, B, C, or D only. See page 21 for more information and consult your advisor for detailed assistance.

**GRADE QUALIFIER**: A grade of a C (2.0) or better is required for each of the core courses (CSCI 103, 170, 104 & 201). Courses with a grade of C- or below must be repeated; courses may only be retaken once with department approval.

**SENIOR DESIGN PROJECT**: **EE 459L**.

**TECHNICAL ELECTIVES**: See approved tech elective list on CS webpage.