## COMPUTER ENGR. & COMPUTER SCI.

### FIRST YEAR

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

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

### SECOND YEAR

**FALL SEMESTER**
- PHYS 152L
- MATH 226 or MATH 229
- CSCI 201L
- EE 209
- OPTIONAL ELECTIVE

**SPRING SEMESTER**
- GE C
- MATH 225
- CSCI 270
- CSCI 354L
- OPTIONAL ELECTIVE

### THIRD YEAR

**FALL SEMESTER**
- GE A
- EE 364 or MATH 407
- WRIT 340
- EE 457
- OPTIONAL ELECTIVE

**SPRING SEMESTER**
- GE B
- TECH. ELECTIVE I
- CSCI 350
- GE D
- OPTIONAL ELECTIVE

### FOURTH YEAR

**FALL SEMESTER**
- GE B
- TECH. ELECTIVE II
- CSCI 353
- EE 451L or EE 454L
- OPTIONAL ELECTIVE

**SPRING SEMESTER**
- GE C
- CSCI 401 or CSCI 404
- CSCI 457L or CSCI 457
- OPTIONAL ELECTIVE

### MATHEMATICS (19-20 UNITS)
- MATH 125: Calculus I
- MATH 126 or 129: Calculus II
- MATH 226 or 229: Calculus III
- MATH 233: Linear Algebra & Diff. Equations
- EE 364: Intro to Probability & Statistics or MATH 407: Probability Theory

### PHYSICS (8 UNITS)
- PHYS 151L: Mechanics and Thermodynamics
- PHYS 152L: Electricity and Magnetism

### GENERAL EDUCATION (32 UNITS)
- GE A: The Arts (1 Course)
- GE B: Humanistic Inquiry (2 Courses)
- GE C: Social Analysis (3 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)*
- GESEM: General Education Seminar (1 Course)*

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

### ENGINEERING (104-106 UNITS)
- CSCI 103L: Introduction to Programming
- CSCI 104L: Data Structures & Object Oriented Design
- CSCI 170: Discrete Methods in Comp. Science
- CSCI 201L: Princ. of Software Development
- CSCI 270: 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 or 404: Capstone: Creating Your High-Tech Startup
- ENGR 102: Engineering Freshman Academy TECHNICAL ELECTIVES

### *SPECIAL NOTES*
- Courses with this 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 C and GE H with a course that also satisfies a Core Literacy. GE H may be satisfied by exam. Additionally, your BESM course should be taken in categories A, B, C, or D only. See pp. 16-17 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 458L.

- TECHNICAL ELECTIVES: See approved tech elective list or CS webpage.