

## FIRST YEAR

### FALL SEMESTER

<b>WRIT 150</b> 4	<b>MATH 125 (GE F)</b> 4	<b>CSCI 103L</b> (CSCI 109) 4	<b>CSCI 109</b> 2	<b>ENGR 102</b> 2
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### SPRING SEMESTER

<b>GE B</b> 4	<b>MATH 129 or MATH 126</b> MATH 125 4	<b>CSCI 104</b> CSCI 103L, (CSCI 170) 4	<b>CSCI 170</b> CSCI 103L, 109 4	<b>OPTIONAL ELECTIVE</b> 2
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## SECOND YEAR

### FALL SEMESTER

<b>GE C</b> 4	<b>EE 109L</b> 4	<b>CSCI 270</b> CSCI 104L, 170 4	<b>CSCI 201L</b> CSCI 104L 4	<b>OPTIONAL ELECTIVE</b> 2
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### SPRING SEMESTER

<b>CSCI 310</b> CSCI 201 4	<b>MATH 229 or MATH 226</b> MATH 129 or MATH 126 4	<b>WRIT 340</b> 3	<b>CSCI 356</b> CSCI 104L 4	<b>OPTIONAL ELECTIVE</b> 3
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## THIRD YEAR

### FALL SEMESTER

<b>GE A</b> 4	<b>MATH 225</b> MATH 126 or MATH 129 4	<b>CSCI 350</b> CSCI 201L and CSCI 356 or EE 354 4	<b>CSCI 360</b> CSCI 104L, CSCI 170 4	<b>OPTIONAL ELECTIVE</b> 2
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### SPRING SEMESTER

<b>BASIC SCIENCE (GE D or E)</b> 4	<b>TECH. ELECTIVE I</b> 3	<b>TECH. ELECTIVE II</b> 3	<b>EE 364</b> MATH 225 or 245 <b>or MATH 407</b> MATH 226 3 or 4	<b>GE B</b> 4
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## FOURTH YEAR

### FALL SEMESTER

<b>BASIC SCIENCE II</b> 4	<b>TECH. ELECTIVE III</b> 4	<b>CSCI 401 or CSCI 404</b> CSCI 270, CSCI 201, CSCI 270, IIP 466 4	<b>GE C</b> 4	<b>OPTIONAL ELECTIVE</b> 2
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### SPRING SEMESTER

<b>GE D or E</b> 4	<b>TECH. ELECTIVE IV</b> 4	<b>REQUIRED ELECTIVE</b> 4	<b>REQUIRED ELECTIVE</b> 4	<b>OPTIONAL ELECTIVE</b> 2
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### MATHEMATICS (19-20 UNITS)

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

### SCIENCE COURSES (8 UNITS)

- BASIC SCIENCE I**
- BASIC SCIENCE II**

### 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 (60 UNITS)

- CSCI 103L:** Introduction to Programming
- CSCI 104L:** Data Structures & Object Oriented Design
- CSCI 109:** Introduction to Computing
- CSCI 170:** Discrete Methods in Comp. Science
- CSCI 201L:** Princ. of Software Development
- CSCI 270:** Intro. to Algorithms & Theory of Computing
- CSCI 310L:** Intro. to Software Engineering
- CSCI 350L:** Introduction to Operating Systems
- CSCI 356:** Introduction to Computer Systems
- CSCI 360L:** Introduction to Artificial Intelligence
- CSCI 401:** Capstone: Design and Construction of Large Software Systems
- or **CSCI 404:** Capstone: Creating Your High-Tech Startup
- EE 109:** Introduction to Embedded Systems
- ENGR 102:** Engineering Freshmen Academy

### OTHER COURSES (8-10 UNITS)

#### REQUIRED 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 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 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.

**BASIC SCIENCE:** PHYS 151L and 152L; CHEM 105aL and CHEM 105bL; or BISC 120L and 220L

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