

FIRST YEAR

FALL SEMESTER

EE 141 4	EE 155 4	EE 105 (MATH 125) 3	WRIT 150 4	ENGR 102 2
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SPRING SEMESTER

MATH 129 MATH 125 4	PHYS 171L (GE E) MATH 129 4	EE 109 EE 155 4	GE A 4	OPTIONAL ELECTIVE 2
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SECOND YEAR

FALL SEMESTER

MATH 229 MATH 129 4	PHYS 172L PHYS 171L, (MATH 2269) 4	EE 250L EE 109L 4	GE B 4	OPTIONAL ELECTIVE 2
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SPRING SEMESTER

MATH 245 MATH 229 4	EE 370 PHYS 172L or PHYS 162L 4	EE 202L PHYS 171 4	GE C 4	OPTIONAL ELECTIVE 3
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THIRD YEAR

FALL SEMESTER

EE 364 MATH 245 4	PHYS 173L PHYS 172L 4	EE 301L EE 202L 4	WRIT 340 WRIT 150 3	OPTIONAL ELECTIVE
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SPRING SEMESTER

EE ELECTIVE 3-4	EE 355 EE 155 4	EE ELECTIVE 3-4	GE D LIFE SCIENCES 4	OPTIONAL ELECTIVE 2-4
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FOURTH YEAR

FALL SEMESTER

EE ELECTIVE 3-4	GE B 4	REQUIRED ELECTIVE 4	REQUIRED ELECTIVE 4	OPTIONAL ELECTIVE 2-3
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SPRING SEMESTER

CAPSTONE DESIGN ELECTIVE 4	GE C 4	REQUIRED ELECTIVE 4	REQUIRED ELECTIVE 3	OPTIONAL ELECTIVE 2
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MATHEMATICS (12 UNITS)

EE 141: Applied Linear Algebra for Engineering

MATH 129: Calculus II

MATH 229: Calculus III

MATH 245: Mathematics of Phys. and Engr. I

PHYSICS (12 UNITS)

PHYS 171: Applied Physics I: Mechanics

PHYS 172L: Applied Physics II: Electricity, Magnetism and Optics

PHYS 173L: Applied Physics III: Topics in Modern Physics

BIOLOGICAL SCIENCE (4 UNITS)

ANY GE D WILL SATISFY THIS REQUIREMENT.

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 (56 UNITS)

EE 105: Intro. to Electrical Engineering

EE 109: Intro. to Embedded Systems

EE 155: Intro. to Comp. Programming for EE

EE 202L: Linear Circuits

EE 250L: Distributed Systems for the Internet of Things

EE 301L: Linear Systems

EE 370: Electromagnetics for Engineering Systems

EE 355: Software Design for Engineers

EE 364: Intro to Probability & Statistics

ENGR 102: Engineering Freshman Academy

EE ELECTIVES

CAPSTONE DESIGN ELECTIVE

OTHER COURSES (15 UNITS)

REQUIRED ELECTIVES

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.

REQUIRED ELECTIVE: Required electives are needed to meet minimum unit requirement and can be met with AP/IB and transfer credit.

OPTIONAL ELECTIVES: Consult with your academic advisor to explore optional elective courses. These courses are not required.

EE ELECTIVES: Minimum 16 units of advisor approved, upper-division EE Electives, including the Capstone Design Elective. Refer to the diagram on the facing page.

CAPSTONE: Take one Capstone Course. Refer to the diagram on the facing page.