





FIRST YEAR

FALL SEMESTER


GE A  4	WRIT 150 4	MATH 125 (GE F)  4	CE 106L 3	ENGR 102 2
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SPRING SEMESTER

GE B 4	CHEM 105aL (GE E)  4	MATH 126 or MATH 129 MATH 125  4	PHYS 151L (GE E) MATH 125 or 126 or 226 4	CE 108 2
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SECOND YEAR

FALL SEMESTER

GE C 4	GE D  4	MATH 226 or MATH 229 MATH 126 or MATH 129 4	PHYS 152L PHYS 151L, (MATH 226) 4	CE 205 PHYS 151L 2
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SPRING SEMESTER

GEOL 305L 4	CE 207L CE 205, (CE 106L, 225) 2	MATH 245 MATH 226 or MATH 229 4	CE 225 CE 205 3	CE 235 CE 205 3	OPTIONAL ELECTIVE 2
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THIRD YEAR

FALL SEMESTER

CE 309 MATH 226, (CE 235) 3	CE 334L CE 225 or AME 204, CHEM 105aL, PHYS 152L 3	CE 358 CE 225 3	CE 456 CE 207L, 225, (CE 358) 3	ISE 460 3	OPTIONAL ELECTIVE 3
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SPRING SEMESTER

GE B 4	DESIGN KERNEL 3	EE 202L or EE 326Lx PHYS 152L 4	CE 451 CE 309 or ENE 410 3	CE 467L CE 225 4
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FOURTH YEAR

FALL SEMESTER

CE ELECTIVE 3	DESIGN KERNEL 3	CE 408 CE 225, MATH 226 3	CE 453 CHEM 105aL, (CE 309 or ENE 410) 3	CE 471 3	OPTIONAL ELECTIVE 3
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SPRING SEMESTER

WRIT 340 WRIT 150 3	GE C 4	CE 402 CE 108, MATH 245 3	CE ELECTIVE 3	CE 465 CE 453 or CE 480 CE 456 or 457 or 478; CE 358, 467, 473 and 482 3	OPTIONAL ELECTIVE 2
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MATHEMATICS (16 UNITS)

MATH 125: Calculus I
MATH 126 or **MATH 129:** Calculus II
MATH 226 or **MATH 229:** Calculus III
MATH 245: Mathematics of Phys. and Engr.

PHYSICS (8 UNITS)

PHYS 151L: Mechanics and Thermodynamics
PHYS 152L: Electricity and Magnetism

OTHER SCIENCE (8 UNITS)

CHEM 105AL: General Chemistry
GEOL 305L: Intro. to Engineering Geology

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 (70 UNITS)

CE 106L: Design & Planning of CE Systems
CE 108: Intro. to CE Computer Methods
CE 205: Statics
CE 207L: Intro. to Design of Structural Systems
CE 225: Mechanics of Deformable Bodies
CE 235: Dynamics
CE 309: Fluid Mechanics
CE 334L: Mechanical Behavior of Materials
CE 358: Theory of Structures I
CE 402: Computer Methods in Civil Engr.
CE 408: Risk Analysis in Civil Engr.
CE 451: Water Resources Engineering
CE 453: Water Quality Control
CE 456: Design of Steel Structures
CE 467L: Geotechnical Engineering
CE 471: Principles of Transportation Engr.
CE 480: Structural Systems Design
or CE 465: Water Supply & Sewage System Design
EE 202L: Linear Circuits
or EE 326Lx: Essentials of Electrical Engr
ENGR 102: Engineering Freshman Academy
ISE 460: Engineering Economy
DESIGN KERNELS
CE 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.

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

CE 205, 225, 309, AND 235: Minimum grade of "C" is required.

EE 326Lx: CE students are encouraged to take EE 326Lx in the spring term.

DESIGN KERNELS: Choose six units from CE 457, 465, 466, 476, 478, 482, 484, or 485. If CE 480 is chosen as senior capstone course, 1 Design Kernel course must be CE 482. If CE 465 is chosen as senior capstone course, 1 Design Kernel course must be either CE 466 or 476.

CE ELECTIVES: Choose six units of upper-division CE course that is not already required.