





FIRST YEAR

FALL SEMESTER

GE A  4	WRIT 150 4	MATH 125 (GE F)  4	CE 110 3	ENGR 102 2
---	----------------------	--	--------------------	----------------------

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
------------------	--	---	--	--------------------

SECOND YEAR

FALL SEMESTER

CE 205 PHYS 151L 2	CHEM 105bL CHEM 105aL 4	MATH 226 or MATH 229 MATH 126 or MATH 129 4	PHYS 152L PHYS 151L, (MATH 226) 4	CE 210L (CHEM 105aL) 3	OPTIONAL ELECTIVE 1
---------------------------------	--------------------------------------	--	--	-------------------------------------	-------------------------------

SPRING SEMESTER

GE C 4	BISC 220L (GE D)  4	MATH 245 MATH 226 or MATH 229 4	ENE 200 CHEM 105bL, MATH 226, PHYS 152L 3	OPTIONAL ELECTIVE 3
------------------	---	--	--	-------------------------------

THIRD YEAR

FALL SEMESTER

CE 309 MATH 226, (CE 235) 3	CE 408 CE 225, MATH 226 3	CE 453 CHEM 105aL, (CE 309 or ENE 410) 3	WRIT 340 WRIT 150 3	ISE 460 3	OPTIONAL ELECTIVE 3
--	--	---	----------------------------------	---------------------	-------------------------------

SPRING SEMESTER

ENE 428 MATH 245, CHEM 105bL, PHYS 151L 3	CHEM 322aL CHEM 105bL 4	DESIGN KERNEL 3	CE 451 CE 309 or ENE 410 3	CE 463L CHEM 105bL, CE 453 3	OPTIONAL ELECTIVE 2
--	--------------------------------------	---------------------------	---	---	-------------------------------

FOURTH YEAR

FALL SEMESTER

GE B 4	CHE 330 (MATH 226) 3	CE 484 CE 451, 463L 3	DESIGN KERNEL 3	PTE 463L MATH 245, CHEM 105aL, PHYS 151L 3	OPTIONAL ELECTIVE 2
------------------	-----------------------------------	------------------------------------	---------------------------	---	-------------------------------

SPRING SEMESTER

GE C 4	GEOL 305L 4	CE 465 CE 453 3	ENE 426 ENE 200 3	CE 485 CE 451, 463L, 473 3	OPTIONAL ELECTIVE 1
------------------	-----------------------	------------------------------	--------------------------------	---	-------------------------------

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

CHEMISTRY (12 UNITS)

- CHEM 105AL:** General Chemistry
- CHEM 105BL:** General Chemistry
- CHEM 322AL:** Organic Chemistry

OTHER SCIENCE (8 UNITS)

- BISC 220L:** Cell Biology and Physiology
- GEOL 305L:** Intro to Engr. 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 (62 UNITS)

- CE 110:** Intro. to Environmental Engr.
- CE 108:** Intro. to CE Computer Methods
- CE 205:** Statics
- CE 210L:** Intro. to Env. Engr. Microbiology
- CE 309:** Fluid Mechanics
- CE 408:** Risk Analysis in Civil Engr.
- CE 451:** Water Resources Engineering
- CE 453:** Water Quality Control
- CE 463L:** Water Chemistry and Analysis
- CE 465:** Water Supp. & Sewage Systems Des.
- CE 484:** Water Treatment Design
- CE 485:** Wastewater Treatment Design
- CHE 330:** Chemical Engr. Thermodynamics
- ENE 200:** Environmental Engr. Principles
- ENE 426:** Particulate Air Pollutants: Properties/ Behavior/ Measurement
- ENE 428:** Air Pollution Fundamentals
- ENGR 102:** Engineering Freshman Academy
- ISE 460:** Engineering Economy
- PTE 463L:** Intro. to Transport Processes
- DESIGN KERNEL**

* 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.

ENE 200, 426, 428, 486, and CE 309: Minimum grade of "C" is required.

DESIGN KERNEL: Choose from CE 443, 466, 476, or CHE 442.