

Civil Engineering (Building Science)

FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
CHEM 105aL (GE E)* 4	GESM (GE B)# 4	PHYS 152L PHYS 151, (MATH 226) 4	CE 309 MATH 226g or 229, (CE 225) 4	GE D* 4	CE 467L CE 225 4	CE 408 (MATH 245) 2	ADVANCED COMPUTING ELECTIVE 4
WRIT 150 4	GE C 4	ARCH 205aL CE 106 4	ARCH 205bL ARCH 205aL 4	ARCH 305aL ARCH 205bL 4	ARCH 305bL ARCH 305aL 4	ARCH 405aL ARCH 305bL 4	ARCH 405bL ARCH 405aL 4
MATH 126 or MATH 129* MATH 125 4	MATH 226 or MATH 229 MATH 126 or 129 4	MATH 245 MATH 226 or 229 4	GE B 4	CE 358 CE 225 4	CE 457 CE 358L, CE 456 4	WRIT 340 WRIT 150 4	GE C 4
CE 106 2	CE 108 2	CE 215 PHYS 151Lg 4	CE 225 CE 215 4	CE 456 CE 225 4	CE 458 CE 358L 4	CE 334L CE 225 or AME 204, CHEM 105aLg, or 115aLg, PHYS 152L 4	CE 460 4
ENGR 102 2	PHYS 151L (GE E) MATH 125 or 126 or 226 4	CE 119 (CE 108, MATH 245) 2	ARCH 214Ag 3	OPTIONAL ELECTIVE 2	CE 330 CE 119 2	ARCH 214bg## 3	OPTIONAL ELECTIVE 2
OPTIONAL ELECTIVE 2							

MATHEMATICS (12 UNITS)

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 (8 UNITS)

WRIT 150: Writing and Critical Reasoning

WRIT 340: Advanced Writing

ARCHITECTURE (30 UNITS)

ARCH 214ag: World History of Architecture

ARCH 214b: History of Architecture

ARCH 205aL: Building Science I

ARCH 205bL: Building Science II

ARCH 305aL: Building Science II

ARCH 305bL: Building Science II

ARCH 405aL: Building Science III

ARCH 405bL: Building Science III

ENGINEERING (52 UNITS)

CE 106: Introduction to Civil Engineering

CE 108: Intro. to CE Computer Methods

CE 119: Probability Concepts and Civil Engineering

CE 215: Statics & Dynamics

CE 225: Mechanics of Deformable Bodies

CE 309: Fluid Mechanics

CE 330: Computational Methods in ENGR

CE 334L: Mechanical Behavior of Materials

CE 358: Elementary Theory of Structures

CE 408: Risk & Decision Analysis in Civil Engr.

CE 456: Structural Design I

CE 457: Structural Design II

CE 458: Computational Structural Analysis

CE 460: Construction Engineering

CE 467L: Geotechnical Engineering

ENGR 102: Engineering Freshman Academy

SPECIAL NOTES

*Courses with the * symbol may be satisfied with AP, IB or A-Level exams. See page 18 for more information.*

GESM#: GESM can be taken from GE categories:

A, B, C, or D. Courses listed in the guide are options for a four-year course plan.

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 AP/IB. Additionally, your GESM course should be taken in categories A, B, C, or D only. See page 17 for more information and consult your advisor for detailed assistance.

##: Completing ARCH 214bg will satisfy the GE A requirement.

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

CE 215, 225, AND 309: Minimum grade of "C" is required.

ARCH 205ABL, ARCH 305ABL, AND ARCH 405ABL: Minimum grade of "C" is required in order to continue in the Building Science sequence.

ADVANCED COMPUTING ELECTIVES: CE 423 OR ENE 440

MATH 125: For students starting with Calculus 1, Advanced Computing Elective will be waived for your requirements.