

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	BIOLOGY REQ/ GE D 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	OPTIONAL ELECTIVE 2	ARCH 214ag 4	CE 330 CE 119 2	OPTIONAL ELECTIVE 2	ARCH 214bg 4
OPTIONAL ELECTIVE 2							

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

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 I
- ARCH 305aL: Building Science II
- ARCH 305bL: Building Science II
- ARCH 405aL: Building Science III
- ARCH 405bL: Building Science III

Other Science (4 Units)

- CHEM 105aL: General Chemistry*

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

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)

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.
- **GE D (Biology Requirement):** Must be an approved BISC course as listed in your STARS report.
- **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 I, Advanced Computing Elective will be waived for your requirements.