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 (4 UNITS)

CHEM 105aL: General Chemistry*

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 I
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.*

GE D (Biology Requirement): Must be an approved BISC course as listed in your STARS report.

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.