# CIVIL (BUILDING SCIENCE)

## FIRST YEAR
### FALL SEMESTER
- **CE 106L**  
- **WRIT 150**  
- **MATH 125 (GE F)**  
- **ARCH 114**  
- **ENGR 102**

### SPRING SEMESTER
- **GE B**  
- **CHEM 105AL (GE E)**  
- **MATH 126 or MATH 129**  
- **PHYS 151L (GE E)**  
- **CE 108**

## SECOND YEAR
### FALL SEMESTER
- **GE C**  
- **ARCH 205aL**  
- **MATH 226 or MATH 229**  
- **PHYS 152L**  
- **CE 205**

### SPRING SEMESTER
- **CE 207L**  
- **ARCH 205bL**  
- **MATH 245**  
- **CE 225**  
- **CE 235**

## THIRD YEAR
### FALL SEMESTER
- **CE 309**  
- **ARCH 305aL**  
- **CE 358**  
- **CE 456**  
- **GE D**

### SPRING SEMESTER
- **GEOL 305L**  
- **ARCH 305bL**  
- **CE 457**  
- **CE 458**  
- **CE 467L**

## FOURTH YEAR
### FALL SEMESTER
- **GE B**  
- **ARCH 405aL**  
- **CE 408**  
- **CE 334L**  
- **ARCH 214b**

### SPRING SEMESTER
- **WRIT 340**  
- **ARCH 405bL**  
- **GE C**  
- **CE ELECTIVE**  
- **GE A**

### MATHMATICS (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.

### SCIENCE (16 UNITS)
- **CHEM 105AL**: General Chemistry  
- **GEOL 305L**: Intro. to Engineering Geology  
- **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 F**: Physical Sciences (1 Course)  
- **GE Q**: Quantitative Reasoning (1 Course)  
- **GE G,H**: Global Perspectives (2 Courses)*  
- **GEEM**: General Education Seminar (1 Course)*

### WRITING (7 UNITS)
- **WRIT 150**: Writing and Critical Reasoning  
- **WRIT 340**: Advanced Writing

### ARCHITECTURE (28 UNITS)
- **ARCH 114**: Architecture: Culture and Comm.  
- **ARCH 214B**: History of Architecture

### ENGINNEERING (48 UNITS)
- **CE 106L**: Design & Planning of CE Systems  
- **CE 108**: Intro. to CE Computer Methods  
- **CE 207L**: Intro. to Design of Structural Systems  
- **CE 225**: Mechanics of Deformable Bodies  
- **CE 235**: Dynamics  
- **CE 334L**: Mechanical Behavior of Materials  
- **CE 358**: Theory of Structures I  
- **CE 408**: Risk Analysis in Civil Engr.  
- **CE 456**: Design of Steel Structures  
- **CE 457**: Reinforced Concrete Design  
- **CE 458**: Theory of Structures II  
- **CE 467L**: Geotechnical Engineering  
- **ENGR 102**: Engineering Freshman Academy  
- **CE ELECTIVE**

### 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 BESM 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.

### ENGR 205, 225, 305, AND 235:
- 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.

### CE ELECTIVE:
- Choose one from CE 451, 453, 460, or 471.