Civil engineering emphasizes infrastructure—geotechnical, water resources, environmental, transportation, construction and structural engineering, as well as other related fields. Our program allows students to discover which area (or combination of areas) of civil engineering is right for them. We emphasize more than classroom learning. For example, the Kentucky Transportation Center, Kentucky Water Resources Research Institute and Environmental Research and Training Laboratories are housed within the Department of Civil Engineering, which also offers one of the nation’s few railroad engineering programs. Our graduates are properly equipped to meet the infrastructure challenges of today and tomorrow.

Freshman Year

**FALL SEMESTER**

- EGR 101 - ENGINEERING EXPLORATION I - 1
- EGR 102 - FUNDAMENTALS OF ENGINEERING COMPUTING - 2
- Choose CHE 105 or PHY 231 - 4
- PHY 241 - GENERAL UNIVERSITY PHYSICS LABORATORY - 1
- UK Core - Comp. & Comm. I - 3
- MA 113 - CALCULUS I - 4

**SPRING SEMESTER**

- EGR 103 - ENGINEERING EXPLORATION II - 2
- UK Core - Comp. & Comm. II - 3
- MA 114 - CALCULUS II - 4
- Choose CHE 105 or PHY 231 - 4
- UK Core - Humanities - 3

**TOTAL HOURS: 16**

Total Freshman Hours: 31

Sophomore Year

**FALL SEMESTER**

- CE 211 - SURVEYING - 4
- CHE 107 - GENERAL COLLEGE CHEMISTRY II - 3
- EM 221 - STATICS - 3
- MA 213 - CALCULUS III - 4
- CE 106 - COMPUTER GRAPHICS AND COMMUNICATION - 3

**SPRING SEMESTER**

- EM 302 - MECHANICS OF DEFORMABLE SOLIDS - 3
- MNG 303 - DEFORMABLE SOLIDS LABORATORY - 1
- MA 214 - CALCULUS IV - 3
- PHY 232 - GENERAL UNIVERSITY PHYSICS - 4
- PHY 242 - GENERAL UNIVERSITY PHYSICS LABORATORY - 1
- STA 381 - ENGINEERING STATISTICS-A CONCEPTUAL APPROACH - 3

**TOTAL HOURS: 15**

Total Sophomore Hours: 32

Junior Year

**FALL SEMESTER**

- WRD 204 - TECHNICAL WRITING - 3
- EES 220 - PRINCIPLES OF PHYSICAL GEOLOGY - 4
- CE 303 - INTRODUCTION TO CONSTRUCTION ENGINEERING - 3

**SPRING SEMESTER**

- CE 331 - TRANSPORTATION ENGINEERING - 3
- CE 351 - INTRODUCTION TO ENVIRONMENTAL ENGINEERING - 3
- CE 382 - STRUCTURAL ANALYSIS - 3
## Senior Year

### FALL SEMESTER
- **CE 461G - WATER RESOURCE ENGINEERING** - 4
- **CE 471G - SOIL MECHANICS** - 4
- **CE 48X - Structures Elective** - 3
- **CE Design Elective** - 3
- **UK Core - Community, Culture and Citizen** - 3

**TOTAL HOURS: 17**

### SPRING SEMESTER
- **CE 401 - SEMINAR** - 1
- **CE 429 - CIVIL ENGINEERING SYSTEMS DESIGN** - 3
- **CE Design Elective** - 3
- **Technical Elective** - 3
- **Supportive Elective** - 3
- **UK Core - Global Dynamics** - 3

**TOTAL HOURS: 16**

**Total Senior Hours: 33**

**Total Minimum hours Required for Degree: 131 hours**