The Civil Engineering Program prepares students to become planners, designers, constructors, stewards of environmental resources, technological innovators, risk managers and public policy decision makers. Students discover which area of civil engineering best suits them through close interaction with faculty members, experiential learning and research opportunities. For example, the Kentucky Transportation Center provides research opportunities that focus on transportation, structural, construction and geotechnical engineering. Also, the Kentucky Water Resources Research Institute provides research opportunities and summer internships that focus on water resources and environmental engineering.

CIVIL ENGINEERING

PURSUING CIVIL ENGINEERING AT UK

Civil engineering students learn to be effective team members and implement interdisciplinary solutions to complex problems. Various concentration areas include construction engineering, construction project management, environmental engineering, geotechnical engineering, materials engineering, structural engineering, transportation engineering, water resources engineering and sustainable infrastructure and humanitarian engineering.

CAREER PROSPECTS IN CIVIL ENGINEERING

Civil engineers are employed by various industries and organizations, such as the construction industry, architectural firms, utility companies, energy companies, telecommunications businesses, manufacturing companies, engineering consulting firms, railroad companies, local, state & federal governmental agencies, and research agencies.

UNDERGRADUATE EXPERIENCES IN CIVIL ENGINEERING

Through their involvement in undergraduate research, students have helped develop CatStrong, a lightweight carbon-fiber product that has been used to repair several Kentucky bridges. Others have engaged in water and environmental research to understand and improve the natural environment, advancing civil engineering best practices in Kentucky and the nation. Some students have also used drones to study landslides and infrastructures, while others have worked on the analysis of transportation network companies, automated vehicles and smart transportation systems.

CO-OPS

UK provides opportunities to co-op with many companies. Students can co-op during the fall, spring or summer terms. Those who complete three co-op rotations will receive formal recognition upon graduation with a special cord (beginning with May ’23 graduates). Students work with the co-op director and their academic advisor to determine the best timing for their co-op experiences.

PROGRAM FACTS

Enrollment: 323
Student Organizations: ASCE, SEA, SWE, Railcats, NSBE and SHPE

GRADUATE STARTING SALARIES

Median full-time starting salary info for 2021 new college graduates
National Association of Colleges and Employers - Summer 2022

Middle 50%
$59,119
$64,233
$61,137
Median Salary

INDUSTRY SECTORS:

- Project Engineer
- Design Engineer
- Project Manager
- Planner
- Technical Specialist

For more information, visit: engr.uky.edu/explore/civil-engineering
# CIVIL ENGINEERING
## Curriculum Synopsis

This list is a synopsis of classes a student will take to pursue a degree in civil engineering. As part of the civil engineering curriculum, students must complete the pre-engineering requirements, major requirements and general education coursework, called UK Core.

**Note:** This synopsis contains several options while pursuing a civil engineering degree. Contact the Director of Undergraduate Studies or see the departmental website for details on specific alternatives.

### Detailed Curriculum Information: engr.uky.edu/explore/civil-engineering

The University of Kentucky's civil engineering program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

Revised August 2022. Information subject to change. For the most up-to-date information on the UK College of Engineering, visit www.engr.uky.edu.

<table>
<thead>
<tr>
<th>YEAR ONE</th>
<th>YEAR TWO</th>
<th>YEAR THREE</th>
<th>YEAR FOUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Exploration I and II</td>
<td>Computer Graphics and Communication</td>
<td>Civil Engineering Materials</td>
<td>Civil Engineering Seminar</td>
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<tr>
<td>Chemistry I</td>
<td>Deformable Solids and Lab</td>
<td>Introduction to Construction Engineering</td>
<td>Soil Mechanics</td>
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<tr>
<td>Physics I and Lab</td>
<td>Statics</td>
<td>Introduction to Environmental Engineering</td>
<td>Two Design Electives</td>
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<tr>
<td>Calculus I and II</td>
<td>Chemistry II</td>
<td>Introduction to Fluid Mechanics</td>
<td>Water Resources Engineering</td>
</tr>
<tr>
<td>Composition and Communication I and II</td>
<td>Physics II and Lab</td>
<td>Structural Analysis and Design</td>
<td>Math Science Technical Elective</td>
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<tr>
<td>UK Core Course</td>
<td>Calculus III and IV</td>
<td>Transportation Engineering</td>
<td>Technical Elective</td>
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<td>UK Core Course</td>
<td>Statistics Elective</td>
<td>Engineering Science Elective</td>
<td>UK Core Courses</td>
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<tr>
<td>UK Core Course</td>
<td>Technical Writing</td>
<td>Principles of Physical Geology</td>
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</tbody>
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**TAKING CO-OPS?**
When you participate in semester co-ops, the above schedule can adjust.

**Department of Civil Engineering**
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