



CIVIL ENGINEERING

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.

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

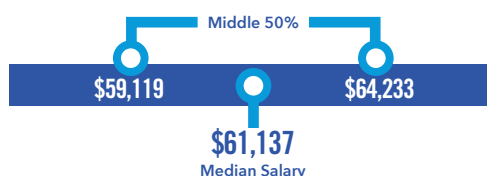
Common Minors: Business Management, Economics, Environmental Science, Mathematics, Public Health and Public Policy

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



INDUSTRY SECTORS:

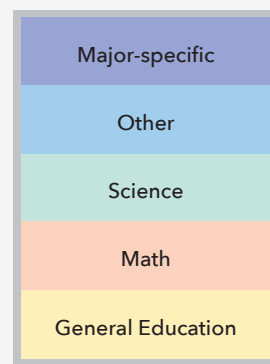
- Project Engineer
- Design Engineer
- Project Manager
- Planner
- Technical Specialist

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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.



YEAR ONE	YEAR TWO	YEAR THREE	YEAR FOUR
Engineering Exploration I and II	Computer Graphics and Communication	Civil Engineering Materials	Civil Engineering Seminar
Fundamentals of Engineering Computing	Surveying	Fundamentals & Application of Sustainable Engineering	Civil Engineering Systems Design
Chemistry I	Deformable Solids and Lab	Introduction to Construction Engineering	Soil Mechanics
Physics I and Lab	Statics	Introduction to Environmental Engineering	Two Design Electives
Calculus I and II	Chemistry II	Introduction to Fluid Mechanics	Water Resources Engineering
Composition and Communication I and II	Physics II and Lab	Structural Analysis and Design	Math Science Technical Elective
UK Core Course	Calculus III and IV	Transportation Engineering	Technical Elective
	Statistics Elective	Engineering Science Elective	UK Core Courses
		Principles of Physical Geology	
		Technical Writing	

TAKING CO-OPS?
 When you participate in semester co-ops, the above schedule can adjust.

Detailed Curriculum Information: enr.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.enr.uky.edu.