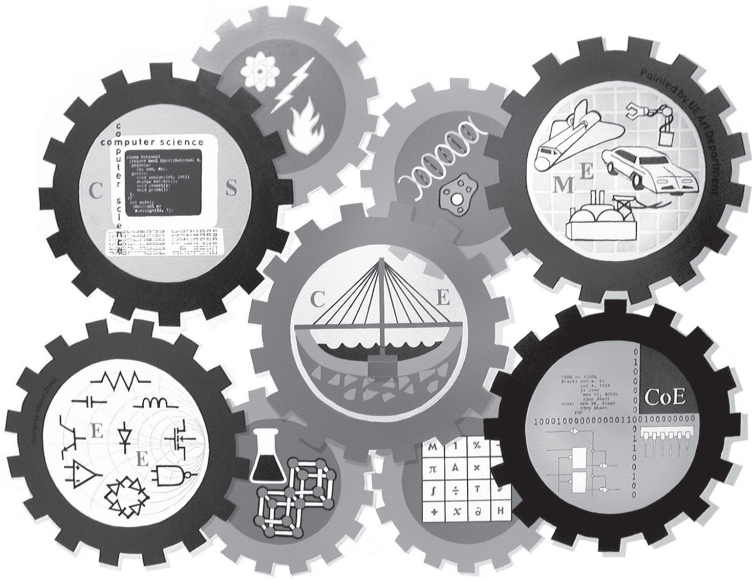


2023-24



*CIVIL ENGINEERING  
GUIDEBOOK*

**UE** University  
of Evansville

*The University of Evansville operates under a nondiscriminatory policy with regard to race, color, creed or religion, national origin, gender, sexual orientation, age, or disability.*

# CIVIL ENGINEERING PROGRAM GUIDEBOOK 2023-24

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**Webpage**  
[evansville.edu/civil](http://evansville.edu/civil)

The Civil Engineering program at the University of Evansville (UE) is accredited by the Engineering Accreditation Commission (EAC) of ABET, Inc., [abet.org](http://abet.org), telephone 410-347-7700.

*Revised 2023*

# CIVIL ENGINEERING AT THE UNIVERSITY OF EVANSVILLE

Civil engineering is the oldest engineering profession, dedicated to improving the quality of life in a sustainable manner. Community, societal, and environmental needs are met through the planning, design, construction, and maintenance of public and private facilities. Civil engineers apply their technical knowledge and skills to diverse projects including stadiums, buildings, dams, highways, bridges, airports, foundations, storm water management systems, and facilities for environmental remediation and compliance. Civil engineering career opportunities exist in industry, government, and the private sector. Practice areas include design, construction, project management, consulting, research, and teaching.

In accordance with the ABET accreditation criteria, the faculty, in cooperation with the Civil Engineering Advisory Council, have established program educational objectives and outcomes for students majoring in Civil Engineering at the University of Evansville. The purpose of these is to ensure that graduates of the program are adequately prepared to enter the practice of civil engineering. Recognizing that the performance of students and graduates is an important consideration in the evaluation of an institution, a system of ongoing assessment is conducted by the faculty to continuously improve the effectiveness of the program.

## **Civil Engineering Program Educational Objectives and Student Outcomes**

“Graduates” are defined as Civil Engineering alumni within three to five years of graduation.

- Objective 1** Graduates will be actively engaged in a professional career as a civil engineer or pursuing advanced study.
- Objective 2** Graduates will understand professional practice issues and demonstrate a commitment to professional licensure and continuing education.
- Objective 3** Graduates, guided by the principles of sustainable development and global interconnectedness, will understand how civil engineering projects affect society and the environment.

“Students” are defined as Civil Engineering students at the time of graduation from the University of Evansville. Students will develop the following skills:

1. The ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

2. The ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. The ability to communicate effectively with a range of audiences.
4. The ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. The ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. The ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. The ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

The Civil Engineering undergraduate program is designed to provide students with a rigorous, thorough understanding of mathematics, basic sciences, humanities, social sciences, communication skills, and the civil engineering discipline. The curriculum prepares students to meet present and future challenges in the profession and to develop insights into economical, physical, social, and political constraints affecting the engineering decision-making process. Today's engineers must be adept at working in a global marketplace. To assist engineers in meeting that challenge, the University of Evansville provides students with an opportunity for an international study abroad experience at Harlaxton in Grantham, England.

Students follow a curriculum that provides a well-rounded fundamental understanding of civil engineering concepts in accordance with current practice. This is achieved through a set of required core courses in construction materials, structural engineering, hydraulic engineering, geotechnical engineering, surveying, transportation engineering, and environmental engineering. In addition, the curriculum provides options for students to take upper division elective courses in structural analysis and design, engineering economics, engineering hydrology, environmental engineering, transportation engineering, construction engineering and management and special topics in civil engineering.

Civil engineers are problem solvers, and the engineering curriculum allows students to develop the skills necessary to identify, formulate, and solve engineering problems. Components of professional and

ethical responsibility are incorporated in most civil engineering courses to prepare students for professional practice.

Students are introduced to civil engineering design in the fall of their freshman year in Civil Engineering 101. The small number of freshmen in each section of this course facilitates close interaction with a faculty member who is also the students' advisor. Past freshmen projects include the design of balsa wood bridges and paper columns that are load tested in the laboratory.

After students gain an understanding of fundamental concepts, design education is continued during the junior year through a variety of design projects. Design is heavily emphasized in the Civil Engineering 400-level required and elective courses and is developed through the use of both individual and team projects. Students use 3-D graphics software in the design process.

All Civil Engineering students are required to take the Fundamentals of Engineering exam. Although passing the exam is not required for graduation, it is the first step toward licensure as a professional engineer.

The Civil Engineering curriculum includes a good balance of coursework in basic mathematics, science, and engineering topics. The engineering topics are divided into approximately two-thirds engineering science and one-third engineering design. The allocation between analysis and design prepares Civil Engineering graduates to enter the practice of engineering or further their education in graduate school. Student chapters of the American Society of Civil Engineers (ASCE), Chi Epsilon (civil engineering honor society), and the Society of Women Engineers (SWE) are sponsored by the School of Engineering and Computer Science to support and encourage the professional development of the student.

The University of Evansville is an intermediate size, private university with a strong emphasis on undergraduate education. UE is a liberal arts and sciences university. High-quality education that emphasizes both the liberal arts and specific professional degree programs, such as Engineering, Business, Education, and Nursing, is offered. This emphasis allows Engineering students to obtain a quality, well-rounded education. Engineering faculty interact with their colleagues in humanities, fine arts, social sciences, and other professional schools. The University's size of about 2,100 full-time students and its large variety of degree programs with over 75 options gives it a dynamic combination of close, faculty-student interaction and diversity.

The Civil Engineering curriculum is typical of most EAC-ABET accredited colleges and universities. What differentiates UE's Civil Engineering program from larger university programs is the following:

- Students have the opportunity to study abroad at Harlaxton in England and still complete their Civil Engineering degree in eight semesters.
- Class sizes are small, allowing for close personal contact between students and professors and for design project opportunities.
- The faculty is dedicated to teaching, which gives the program great flexibility. Course content is kept up-to-date, and innovative instruction techniques, such as multidisciplinary team projects, active learning, and problem-based learning, are used in the classroom.
- All Civil Engineering laboratory equipment is dedicated to serving undergraduate engineering students. Labs are taught by professors, not graduate students.
- Emphasis is placed on preparing students to enter the practice of civil engineering upon graduation.
- A personalized co-op program, featuring alternating terms of paid, full-time professional employment and university attendance, is available.
- The University's size and diversity facilitates the ability of engineering students to interact with students and faculty in other programs, thus allowing free intellectual and social interchange.
- Students are mentored to develop a love of learning and discovery that will motivate them to be lifelong learners.

# AREAS OF SPECIALIZATION

Technical electives can be taken in several different areas:

- Intermediate Structural Analysis
- Advanced Structural Design
- Advanced Pavement Design and Management
- Design of Concrete Structures
- Design of Steel Structures
- Engineering Hydrology
- Environmental Engineering II
- Engineering Economics
- Special Topics in Civil Engineering: Earth Dams, Open Channel Hydraulics, Advanced Transportation Engineering, and Building Information Modeling
- Independent Study in Civil Engineering

In addition to this list, students may choose an elective in Mechanical Engineering.

# CO-OP AND INTERN PROGRAMS

Civil Engineering majors are encouraged to participate in cooperative education. In the co-op program, a student completes the Bachelor of Science in Civil Engineering (BSCE) degree requirements in five year's but at the end of that time, the student has a degree plus a minimum of three terms of experience as a civil engineer.

The typical Civil Engineering co-op student attends classes the first two years as a traditional student. At the end of their sophomore year the co-op student begins summer work with a private company, government agency, or construction company. The student attends classes in the fall, then returns to work in the spring. Thereafter, the co-op student alternates between work and school.

CO-OP CALENDAR			
Year	Fall	Spring	Summer
1	School 1	School 2	Work option
2	School 3	School 4	Work 1
3	School 5	Work 2	School 6
4	Work 3	School 7	Work 4
5	School 8	School 9	

Students who are exceptionally well-prepared to enter the workforce may begin their co-op period in the summer after the freshman year. This is unusual, and most students begin after the sophomore year.



To enter the co-op program, students enroll in EXED 090. This is a non credit course which is taken during the fall of the sophomore year. This course covers topics such as résumé writing, interviewing, job descriptions, and employer expectations. During the spring semester of the sophomore year the typical co-op student interviews with prospective employers. The Center for Career Development contacts employers and arranges interviews for students. Actual placement in a co-op position is dependent on the outcome of the interview process.

Internships are available as full-time jobs during the summer or as part-time jobs during the school year. Co-op students in Civil Engineering and interns have a wide range of employers to choose from. Employers are located in the immediate Evansville area, in the surrounding region of Indiana, Kentucky, and Illinois, and at various places throughout the country. If a student wants to work for a company that has not been a co-op employer with UE, the Center for Career Development will contact that company and attempt to establish a program. To qualify as a legitimate co-op employer, the company has to provide a Civil Engineering opportunity for a student that is relevant to the student's education and chosen profession. Some of the companies that have provided co-op or intern opportunities for UE Civil Engineering students are listed below:

American Structure Point	Indiana DNR
Lochmueller Group	Indiana DOT
Bowen Engineering Corp.	Morley Architects, Engineers
Burns and McDonnell	Parsons Corporation
CH2M	Patriot Engineering
CHA Consulting	PCI/Skanska
City of Evansville	Stantec
Cives Steel Company	Traylor Brothers
Commonwealth Engineers	US Army Corps of Engineers
City of Indianapolis	US Navy

The value of the co-op program is the experience that it provides the student. A co-op job can be a financial benefit, but one term at work does not typically cover the cost of one term in education. The co-op program gives employers an opportunity to examine a student as a prospective employee without making a commitment to long-term employment. Likewise, the co-op program gives the student a chance to examine a company and gain experience before entering the workforce as a working professional.

Co-op students normally get a higher salary offer upon graduation than non co-op students. In many cases the co-op employer provides a long-term employment opportunity for the co-op student upon graduation. Internships are available to students who would like to gain actual engineering work experience but still complete their degree in four years.

# HARLAXTON OPTION

Harlaxton is the University's study abroad center located in the rolling countryside of Grantham, England. Harlaxton is about a one-hour train ride north of London. Engineering students who choose to spend a semester studying at Harlaxton have easy access to England's culture, history, and entertainment.

Harlaxton is housed in a large Victorian manor where about 200 students and faculty live and hold classes. The Manor has a state dining room and a number of historic state rooms where classes are held. Harlaxton also has a soccer field, sports hall, student lounges, and bistro.

Engineering students who wish to study one semester in England are encouraged to do so during the first semester of their sophomore year. At Harlaxton, Engineering students typically take Calculus, British Studies, and general education courses. Harlaxton is on the semester system and all classes earn credit at the University of Evansville in the same way they would if they were taken in Evansville. General education courses can be selected that will count as required courses toward the civil engineering degree. Tuition at Harlaxton is the same as tuition at the Evansville campus, and all scholarships and loans may be applied to Harlaxton costs.

Students at Harlaxton are encouraged to travel on weekends. The Manor arranges eight to 10 weekend field trips to locations such as Bath, Wales, London, and Scotland. During some semesters, less frequent but longer trips are arranged to Ireland and the continent.

Harlaxton has resident British faculty as well as visiting faculty from the University of Evansville and other selected campuses in the United States. Likewise, students at Harlaxton come from the Evansville campus and various other campuses around the United States.

It is also possible to attend a five-week summer session at Harlaxton and take Independent Study in Civil Engineering (Civil Engineering 498).

## **Harlaxton Costs**

While the tuition at Harlaxton is the same as on the Evansville campus and all scholarships apply to Harlaxton, there are additional costs associated with travel. The typical round trip airfare is \$1,500 and students at Harlaxton will spend up to an additional \$4,000 on weekend trips, souvenirs, and other miscellaneous expenses. Additional expenses should be less during the summer session.

# HONORS PROGRAM – CIVIL ENGINEERING

The Honors Program is open to selected Civil Engineering majors on entrance to the University. Admittance to the Honors Program is determined by the University Honors Committee on the basis of standardized test scores (minimum 1900 SAT or minimum 29 ACT), an essay, and high school unweighted GPA 3.5 or above. The program provides participants with the opportunity to interact with other Honors Program students both socially and academically. Challenging honors courses and other academic events are available for honors students both in general education and in the major. Honors students have special library privileges, are able to register early, and may choose to stay in Powell Residence Hall where honors students are given preference.

In Civil Engineering, honors students must meet the following requirements:

1. Honors students must have a grade point average of 3.5 or better at the time of graduation.
2. Honors students must acquire a total of at least 21 points in the Honors Program made up of the following:

## **Coursework** (required; 15 points)

*Honors Courses* (generally three points each) are offered on a regular basis. They include First-Year Seminar 112, various courses which fulfill the general education requirements, honors courses in other departments which are not part of the general education requirements, and honors science labs.

*Major Courses* (generally three points each) are courses within the major which are given a section designation of H.

## **Alternate Courses** (points vary)

Alternate honors courses include courses taken for independent study and contract courses. A contract course is a non-honors course in which a written contract, which requires additional or alternative course work, is prepared. The contract must be pre-approved by the instructor, the department chair and the honors director.

## **Honors Project and Research** (required; 3 points)

In Civil Engineering this requirement is satisfied by the senior project sequence (Civil Engineering 495/497). This is a yearlong sequence in which Civil Engineering students write a proposal during the spring semester of their junior year and complete a comprehensive civil engineering design project. The honors project in Civil Engineering is typically more challenging, has a significant design component, and is presented at a regional or national conference.

### **Study Abroad (optional; points vary)**

Study at Harlaxton during the fall or spring semester earns two points. Completion of a Harlaxton summer semester earns one point. Students studying abroad in other locations can obtain points based on the length of stay and Honors learning experience.

3. Students must participate in the Honors Program each semester.

## **STUDENT ORGANIZATIONS**

### **ASCE Student Chapter**

The American Society of Civil Engineers (ASCE) is the oldest national engineering society in the United States. The mission of ASCE is to enhance the quality of life worldwide by advancing professional knowledge and improving the practice of civil engineering in service to humanity. Founded in 1852, ASCE has more than 120,000 members, including over 15,000 student members.

ASCE sponsors specialty conferences and continuing education courses, provides the government with technical assistance on civil engineering related issues, conducts an active public awareness program, and is the largest publisher of civil engineering information in the world. Within the society, there are more than 500 technical and management committees working to advance the theory and practice of the profession.

UE students as well as the local chapter have been recognized for accomplishments and achievements. Several seniors have received awards in the national Daniel W. Mead Essay competition. In 2015, Chris Unzicker from UE won the national Mead Competition. In 2003 and 2008, the student chapter hosted the Great Lakes Regional Conference, and in 2011, they hosted the National Concrete Canoe championship. In 2014, 2015, 2016, and 2017, the chapter was awarded a Certificate of Commendation for all their activities, one of only 17 of the 380 civil engineering programs to be so recognized. In 2005, 2006, 2009, 2011, 2012, 2013, and 2015 the UE concrete canoe team participated in the National Concrete Canoe Competition and placed in the top 20 nationally. The team received the ASCE National Innovation Award in 2013. ASCE presented the University's Civil Engineering program with the Walter LeFevre Award in 2009.

The local student chapter participates in a variety of social and technical activities.

- Student chapter meetings
- Construction and industrial tours
- Joint meetings with the local ASCE professional branch

- Attend and participate in regional and national ASCE meetings
- Network with guest speakers from business and industry
- Gain leadership skills as an officer in the student chapter
- Scholarship opportunities through ASCE
- Participate in the senior presentation competition at the ASCE Indiana Section meeting in Indianapolis
- Sponsor the regional balsa wood bridge competition
- Concrete canoe competition
- Steel bridge competition
- Other technical competitions

UE Civil Engineering seniors won first place in the ASCE state design presentation competition in 2012 and 2014, ahead of design teams from other Indiana universities.

### **Chi Epsilon**

Chi Epsilon is the national civil engineering honor society. It is dedicated to recognizing Civil Engineering students with high scholastic ability, moral integrity, and social poise. Eligibility is limited to juniors and seniors who rank in the upper one-third of their class. In 2014, the University's Chi Epsilon chapter was given the Susan B. Brown Award at the biannual national conference, one of only eight universities to receive the award.

### **Society of Women Engineers**

The Society of Women Engineers (SWE) is a national organization with student sections on each engineering campus. The section is an interdisciplinary organization with membership spanning all the engineering disciplines and is open to men who are interested in the mission and activities of the group.

The mission of SWE is to encourage women to achieve their full potential in careers as engineers and leaders, to expand the image of the engineering profession as a positive force in improving the quality of life, and to demonstrate the value of diversity.

## Bachelor of Science in Civil Engineering

FALL		SPRING		
<b>FRESHMAN</b>				
CE 118	Principles of Chemistry	4	MATH 222 Calculus II	4
MATH 221	Calculus I	4	PHYS 210 Calculus Physics I	4
CE 101	Introduction to Civil Engineering	3	CE 224 Construction Management	3
FYS 112	First-Year Seminar	3	General Education	3
	Foreign Language 111*	<u>3</u>	Foreign Language 112*	<u>3</u>
		17		17
<b>SOPHOMORE</b>				
ENGR 212	Statics	3	CE 221 Civil Engineering Materials	3
	Science Elective	3-4	ENGR 232 Mechanics of Materials	3
MATH 323	Calculus III	4	MATH 324 Differential Equations	3
CE 183	Surveying	3	Science Elective	3-4
	General Education Course	3	General Education Course	<u>3</u>
HE 100	Gen Ed-Health and Wellness	<u>1</u>		15-16
		17-18		
<b>JUNIOR</b>				
	Engineering Elective	3-4	CE 338 Soil Mechanics and Soil Behavior	3
CE 340	Structural Analysis	3	CE 339 Soil Mechanics Lab	1
ENGR 366	Fluid Mechanics	3	CE 350 Transportation Engineering	3
CE 380	Hydraulics Lab	1	CE 374 Environmental Engineering I	3
ENGR 390	Applied Engineering Mathematics	3	Technical Elective	3
	General Education	<u>3</u>	Free Elective	<u>3</u>
		16-17		16
<b>SENIOR</b>				
CE 438	Geotechnical Engineering	3	CE 497 CE Design Project II	3
			Free Elective	3
CE 469	Design of Hydraulic Structures	3	Technical Elective	3
CE 495	CE Design Project I	3	General Education Course	3
	Free Elective	3	General Education Course	<u>3</u>
	Technical Elective	<u>3</u>		15
		15		

\*Note: Only if necessary to meet the University foreign language requirement.

## Harlaxton Option Plan of Study

<b>FALL</b>	<b>SPRING</b>
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### FRESHMAN

CHEM 118	Principles of Chemistry	4	MATH 222	Calculus II	4
MATH 221	Calculus I	4	PHYS 210	Calculus Physics 1	4
CE 101	Introduction to Civil Engineering	3	CE 224	Construction Management	3
			ENGR 212	Statics	3
FYS 112	First Year Seminar	3		Foreign Language 112	3
	Foreign Language 111*	3			17
		17			

### SOPHOMORE

BRIT 2XX	General Education	3	CE 221	Civil Engineering Materials	3
	Science Elective	3	ENGR 232	Mechanics of Materials	3
MATH 324	Differential Equations	3	MATH 323	Calculus III	4
	General Education Course	3		Science Elective	3-4
	General Education Course	3		General Education Course	3
		15			16

### JUNIOR

	Engineering Elective	3-4	CE 338	Soil Mechanics and Soil Behavior	3
CE 340	Structural Analysis	3	CE 339	Soil Mechanics Lab	1
ENGR 366	Fluid Mechanics	3	CE 350	Transportation Engineering	3
CE 380	Hydraulics Lab	1		Environmental Engineering I	3
ENGR 390	Applied Engineering Math	3	CE 374	Technical Elective	3
CE 183	Surveying	3		Free Elective	3
		16-17			16

### SENIOR

CE 438	Geotechnical Engineering	3	CE 497	CE Design Project II	3
				Free Elective	3
CE 469	Design of Hydraulic Structures	3		Technical Elective	3
CE 495	CE Design Project I	3		General Education Course	3
	Free Elective	3		General Education Course	3
	Technical Elective	3			16
HE 100	Gen Ed-Health and Wellness	1			
		16			

\*Note: Only if necessary to meet the University foreign language requirement.

# Engineering Management Minor

A minor in Engineering Management is offered by the School of Engineering and Computer Science in cooperation with the Schroeder Family School of Business Administration. For Civil Engineering students, the Engineering Management minor can be earned by taking the following courses.

## ***Engineering Management Minor (18 hours)***

ECON 101 Principles of Macroeconomics (general education elective)

or

ECON 102 Principles of Microeconomics  
ENGR 390 Applied Engineering Mathematics (required)  
ENGR 409 Engineering Economy and Decision Making (technical elective)

COMM 380 Intercultural Communication (general education elective)

or

BUS 100 Introduction to Business  
MGT 331 International Business Strategy

or

MGT 377 Organizational Behavior (free elective)  
LSCM 315 Introduction to Logistics and Supply Chain Management (free elective)

With careful curriculum planning, Civil Engineering students can earn an Engineering Management minor without taking any additional courses. The note in parenthesis following each course shows where the course might fit into the BSCE curriculum plan.



# Mathematics Minor

A minor in Mathematics is offered by the College of Arts and Sciences. Civil Engineering students can earn a Mathematics minor by taking the following courses.

## **Mathematics Minor** (20 hours)

ENGR 390	Applied Engineering Mathematics (required)
MATH 221	Calculus I (required)
MATH 222	Calculus II (required)
MATH 323	Calculus III (required)
MATH 324	Differential Equations (required)
MATH 3xx	300- or 400-level course in Mathematics (free elective)

With careful curriculum planning, Civil Engineering students can earn a Mathematics minor without taking any additional courses. Upper-level Mathematics courses require faculty approval. The note in parenthesis following each course shows where the course might fit into the BSCE curriculum plan.

# Energy Engineering Certificate

A certificate in Energy Engineering is available to students in the Civil Engineering program. Students may earn the certificate by completing the following requirements.

## **Energy Engineering Certificate** (12 hours or equivalent)

EE 430            Energy Conversion Systems (free elective)

### **Any three of the following:**

CE 374	Environmental Engineering I (required)
EE 330	Introduction to Power Systems (free elective)
ME 463	Principles of Turbomachinery (technical elective)
ME 470	Combustion (technical elective)
ME 472	Energy Systems (technical elective)
ME 476	Power Plant Engineering (technical elective)

CE 497 or EE 497 or ME 497

(with an approved energy-focused project)

or

COOP 91 - 95 or EXED 71 - 73

(with an approved energy-focused employer).

With careful curriculum planning, including an approved energy-focused project or co-op, Civil Engineering students can earn an Energy Engineering certificate without taking any additional courses. The note in parenthesis following each course shows where the course might fit into the BSCE curriculum plan.

# COURSES

For course descriptions, visit [evansville.edu/civil](http://evansville.edu/civil) and select Course Offerings under About Our Program.

CE 101 Introduction to Civil Engineering

CE 183 Surveying

CE 224 Construction Management

CE 221 Civil Engineering Materials

CE 338 Soil Mechanics and Soil Behavior

CE 339 Soil Mechanics Laboratory

CE 340 Structural Analysis

CE 341 Design of Steel Structures

CE 342 Design of Concrete Structures

CE 350 Transportation Engineering

CE 374 Environmental Engineering I

CE 380 Hydraulics Laboratory

CE 438 Geotechnical Engineering

CE 443 Intermediate Structural Analysis

CE 449 Advanced Structural Design

CE 450 Advanced Pavement Design and Management

CE 468 Engineering Hydrology

CE 469 Design of Hydraulic Structures

CE 475 Environmental Engineering II

CE 495 Civil Engineering Design Project I

CE 497 Civil Engineering Design Project II

CE 498 Independent Study in Civil Engineering

CE 499 Special Topics in Civil Engineering

ENGR 212 Statics

ENGR 213 Dynamics

ENGR 230 Materials Science

ENGR 232 Mechanics of Materials

ENGR 366 Fluid Mechanics

ENGR 390 Applied Engineering Mathematics

ENGR 409 Engineering Economy and Decision Making

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