

# Master of Science in **Civil Engineering**

100% Online

*A degree without boundaries*



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enrollment counselors

[online@louisville.edu](mailto:online@louisville.edu)

**800.871.8635**

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## About Us



### **Department of Civil and Environmental Engineering**

The Department of Civil and Environmental Engineering is housed within the J.B. Speed School of Engineering at the University of Louisville. The mission of the department is to serve the university and the engineering profession by providing high quality educational programs to all students, engaging in research and scholarship that will extend knowledge, and assisting the economic development of the regional, state, and national economies through technology transfer.

### **Accreditation**

The University of Louisville is accredited by the Commission on the Colleges of the Southern Association of Colleges and Schools to award associate, bachelor, master, specialist, doctoral, and first-professional degrees (D.M.D., J.D., M.D.).

### **University of Louisville**

The University of Louisville (UofL) is a state supported research university located in Kentucky's largest metropolitan area that offers 170 majors, degrees, certificates and professional development programs.

The University of Louisville's mission is to be a premier, nationally recognized metropolitan research university with a commitment to the liberal arts and sciences and to the intellectual, cultural, and economic development of our diverse communities and citizens through the pursuit of excellence.

With a student body exceeding 22,500 and with more than 6,500 faculty members, the University of Louisville paves the way for students of all ages to achieve their academic, professional and personal goals through quality education.

### **UofL Online Learning**

The University of Louisville understands the challenges of adult professionals who want to earn a college degree and extends its education offerings through UofL Online Learning to connect nontraditional students with flexible online education options. Online learning can help them acquire the necessary knowledge and skills in a convenient and affordable manner, and secure or advance their career. Online Learning delivers a wide variety of online courses and in-demand undergraduate, graduate and certificate programs completely online to students in the U.S. and around the world.

# Master of Science in Civil Engineering – Online Program Info

We are dedicated to educating civil engineers in innovative and progressive ways. That is why we offer the Master of Science in Civil Engineering (MSCE) 100% online. The program is comprised of courses that are specific to transportation engineering, giving you access to a unique degree without boundaries.

Completion of this program empowers civil engineers who are interested in the transportation industry to expand their knowledge and gain an advantage in their career with this focused degree.

The program is designed for graduates with a bachelor's degree in civil engineering. We understand that graduates are often professionals practicing in the field of civil engineering, which is why our courses are delivered 100% online.

You can complete your coursework without daily time restraints. The program structure does not require full-time enrollment, which is conducive to working professionals balancing school, work, and personal life.

## MSCE Degree Benefits

- 100% online
- 30 credit hour curriculum
- Students may transfer in 6 credit hours of graduate courses from another regionally accredited institution
- Degree may be completed in three intensive enrollment semesters
- A dedicated advisor assists students throughout the program
- Great job outlook and career opportunities



## Program Structure

All of the courses in the program are taught 100% online, allowing you to attain your master's in a convenient format, regardless of your current location. And you can graduate with an MSCE degree within two years!

The entire degree requires a minimum of thirty (30) credit hours (10 courses) for completion and you may be eligible to transfer up to six (6) credit hours from another regionally accredited institution. Courses follow a semester schedule (fall, spring, summer) and terms are approximately 15 weeks long.

## Career Information

According to the Bureau of Labor Statistics, employment of civil engineers is projected to grow 8 percent from 2014 to 2024. The growing population, increasing urbanization, and aging infrastructure have greatly increased the demand for civil engineers who are prepared to address these global issues.

(U.S. Bureau of Labor Statistics, [www.bls.gov](http://www.bls.gov)).

Our graduates can apply their MSCE credentials to various fields and may pursue careers such as:

- Structural Engineer
- Surveyor
- Water Resource Professional
- Transportation Analyst
- Project Engineer
- Land Development Engineer

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# Master of Science in Civil Engineering – Online Curriculum

The MSCE online degree program requires 30 credit hours for graduation. Courses include:

Category	Typical Term Offered	Course Title	Credit Hours
CEE 522	Fall	Fundamentals of Prestressed Concrete	3
CEE 523	Summer	Timber Design	3
CEE 560	Fall	Traffic Engineering	3
CEE 562	Fall	Geometric Highway Design	3
CEE 563	Spring	GPS Theory and Application	3
CEE 565	Summer	GIS Application to Transportation	3
CEE 573	Fall	Groundwater Hydrology	3
CEE 590	Spring	Construction Management	3
CEE 590	Summer	Bridge Design	3
CEE 626	Spring	Masonry Design	3
CEE 660	Spring	Transportation Planning & Urban Development	3
CEE 661	Summer	Environmental Analysis of Transportation Systems	3
CEE 662	Fall	Airport Planning and Design	3
CEE 663	Spring	Advanced Traffic Operations	3
CEE 664	Spring	Intelligent Transportation Systems	3
CEE 665	Summer	Pavement Design	3
CEE 694	Fall	Building Information Modeling	3
CEE 694	Summer	Wetland Design	3

\*Note that the "term offered" is based on when courses have historically been available. The term that the course is offered is subject to change. To be sure of your course selection(s), contact your advisor each semester prior to registration.

## Hear it from our graduates

The coursework definitely was current and real world applicable.

### Ms. Jewell Stone, P.E. ('11)

When I decided to pursue a master's degree, I needed a graduate program that would fit work schedule and personal life. Since I live in Indiana, I looked at Indiana schools and online programs across the U.S. The University of Louisville's Master of Engineering online was the most competitively priced of these.

I graduated early-May 2011 and immediately put my degree to use when I was promoted in mid-May to Environmental and Scoping Manager. The Transportation Planning and Urban Development coursework definitely was current and real world applicable.

Ms. Jewell Stone, P.E., Online MSCE Graduate (2011)

*Environmental and Scoping Manager  
Greenfield District  
Indiana Department of Transportation*

# Admission

## Admission Requirements

Admission to the University of Louisville Graduate School, for the purposes of pursuing the Master of Science in Civil Engineering, requires:

- Bachelor in Civil Engineering from a regionally accredited institution or international equivalent
- Minimum cumulative baccalaureate grade point average (GPA) of 2.75
- Official transcripts from all from all secondary schools, universities, colleges, or professional schools attended.
- The successful applicant will typically have a GRE combined Verbal and Quantitative Reasoning score of 295 or above.
- Completed application for admission to the Graduate School, University of Louisville – <http://louisville.edu/graduate/futurestudents/apply-materials/application>, which includes:
  - One recommendation form from an individual who can speak to the applicant's academic or professional capabilities
- \$65.00 application fee, check or money order made payable to the University of Louisville

## International Students

If you live outside of the United States and intend to complete an online academic program from your home country, be sure to view the [special requirements](#) for international students.

**Note:** International students do not need a U.S. visa to enroll in the Online MSCE graduate program as there are no on-campus requirements and the program can be completed from outside the U.S.

For complete application instructions go to <http://louisville.edu/graduate/futurestudents/apply-materials/application>.

## Application Deadlines

- Fall – Submit COMPLETE application by August 1
- Spring – Submit COMPLETE application by December 1
- Summer – Submit COMPLETE application by April 1

## Send admission materials to the Graduate Admissions office at the following address:

University of Louisville  
School of Interdisciplinary and Graduate Studies  
2211 S Brook St, Houchens Bldg, Rm 105  
Louisville, Kentucky 40292  
United States of America

Or email to: [gradadm@louisville.edu](mailto:gradadm@louisville.edu)

For more application instructions, go to <http://louisville.edu/graduate/futurestudents/apply-materials/application>

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# Tuition and Financial Aid



Tuition for the Master of Science in Civil Engineering is one of the most affordable in the nation. Tuition for online courses is the same for both in-state and out-of-state students.

## Online Degree Tuition

Tuition Rates	
<b>Graduate online course</b>	\$714 per credit hour
<b>Active-duty* service members</b>	\$250 per credit hour (see our <a href="#">Military Tuition Discounts page</a> for more info).
<b>Reserve Component and National Guard</b>	May be eligible for \$250 per credit hour tuition assistance rate

\*Active-Duty is defined as on orders for 180 days or more.

The tuition rates above apply only to online courses and may be different than, or in addition to, tuition costs for other non-online courses you may be taking. If you're receiving a tuition scholarship, please check the monetary value to determine whether the cost of online courses is covered.

Note: Tuition and fees are subject to change at any time without prior notice. The summary on this page is intended to provide a quick reference for students. For more information and updates, visit the [UofL Bursar's page](#).

## Financial Aid

Financial aid is available for all online students who are U.S. citizens, and qualify. Most foreign citizens are not eligible for student aid from the U.S. Department of Education. Learn more at <https://studentaid.ed.gov/sa/sites/default/files/international-students.pdf>.

For student loans to disburse in a timely manner, it is critical that you complete all required steps:

1. Assemble your tax and asset information, such as your IRS forms, W2s, 1040s, etc.
2. Go to [www.fafsa.ed.gov](http://www.fafsa.ed.gov) to file your FAFSA form (Free Application for Federal Student Aid). Be sure to apply for your Personal Identification Number (PIN) during the FAFSA filing process. Use the PIN to electronically sign your FAFSA. **UofL's FAFSA school code is 001999.**
3. Once your FAFSA is processed by the U.S. Department of Education, you will be sent a Student Aid Report (SAR). If you filed electronically, the SAR will be sent to you via email. If you filed by paper or did not provide an email address, the SAR will be sent to you by mail.
4. Review the SAR for comments and incorrect information. If accurate, keep the SAR for your records. If you find any errors, you can correct them by returning the paper SAR or by making corrections to a processed FAFSA [online](#). If you used estimated tax return information when completing the FAFSA, remember to update your FAFSA with actual tax information by using the [IRS Data Retrieval](#) Tool after you file your federal income tax return.

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We know the cost of education is one of the most important considerations when deciding where to pursue a degree. The University of Louisville is committed to ensuring you are knowledgeable about all of your financial aid options. UofL offers flexible payment options for students, including a payment plan, and accepts military benefits or employer tuition assistance payment methods.

**Contact Financial Aid:** Email: [finaid@louisville.edu](mailto:finaid@louisville.edu) Phone: 502.852.5511

## Get Ready For Your Online Classroom

### Tech Requirements

You will need the following hardware and software in order to access your courses online, work on and submit assignments, communicate with professors and peers, and successfully complete your courses and your degree program:

	Windows	Mac
<b>Personal computer</b>	With administrative rights (the ability to download software and change security settings)	With administrative rights (the ability to download software and change security settings)
<b>Broadband Internet connection</b>	Speed of 512 kb/s or higher for DSL or 1 Mbps or higher for (upload) cable connection	Speed of 512 kb/s or higher for DSL or 1 Mbps or higher for (upload) cable connection
<b>Operating system</b>	Windows XP or higher	Mac OSX 10.5 or higher
<b>Microsoft Office</b>	2010 or higher	iWork or Microsoft Office 2011
<b>Browsers</b>	IE 8.0 & 9.0, FireFox 3.6 & Final Release Channel, Chrome (Stable Channel)	Safari 4.0, 5.0 & 5.1, Firefox 3.6 & Final Release Channel, Chrome (Stable Channel)
<b>Java</b>	Version 1.6 or higher	Version 1.6 or higher
<b>RAM memory</b>	4 GB or higher	4 GB or higher
<b>Webcam and microphone</b>	Internal or external	Internal or external

Go to <http://uofl.me/2BzWfcC> to ensure that your computer is properly set up and that your browser is compatible.

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## FAQs

### 1. What are the benefits of online learning?

The biggest benefit of online learning is that you can work to earn your degree from your own home while raising a family, working full-time or experiencing particular life circumstances that make commuting to campus difficult or impossible.

### 2. How is the online program different than an on-campus program?

At UofL you are taught by the same world-class faculty as our on-campus students. You read the same books, do many of the same assignments and earn the same degree. The biggest difference is that you are able to do it in your own time and in a way that best fits your learning and lifestyle.

### 3. I am on active duty. Can I take online classes at UofL?

Yes! You can take online classes from anywhere in the world, provided you have consistent Internet access. UofL offers a tuition discount to all active-duty service members as well as to qualified veterans, Reserve and National Guard members.

### 4. Can I receive credit for graduate courses completed at another institution?

Yes. Once you are admitted to the program, you may request to transfer up to 6 applicable graduate credit hours. The department will assess your transcripts.

### 5. What bachelor's degrees, other than engineering, are acceptable for admission in the MS Civil Engineering program?

A Bachelor of Science in civil engineering is required. International students must have the equivalent of a BSCE. No technology degrees will be accepted.

### 6. Are GRE scores required for admission?

The GRE is required and cannot be waived. There are no exceptions to this policy. Review the "Apply Now" section for required GRE scores necessary to be considered for admission.

### 7. Can I be admitted provisionally, until I take the GRE?

There is no provisional admission to the degree program without a GRE score.

### 8. Is Tuition Assistance available for active-duty military enrolled in the MSCE?

Yes, Tuition Assistance (TA) is currently available for active duty military at the rate of \$250 per credit hour. This rate is subject to change without notice.

### 9. Are scholarships available for the MSCE program?

No, at this time there are no scholarships available. However, some employers may provide tuition support through employer reimbursement programs.

### 10. Will my employer pay for all or some of the tuition for the MSCE program?

You must check with your employer to identify availability of employer reimbursement programs.

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# Contact Us

## UofL Online Learning

Office hours: Monday - Thursday 8:30 a.m. to 6:00 p.m. ET, Friday 8:30 a.m. to 4:30 p.m. ET

### Online Learning Enrollment Counselors

Email: [online@louisville.edu](mailto:online@louisville.edu)

Phone: 800.871.8635

## J.B. Speed School of Engineering

Office hours: Monday – Friday 7:30 a.m. to 3:30 p.m. ET

### Leigh Ann Elles

Graduate Academic Counselor

J.B. Speed School of Engineering

Email: [leigh.elles@louisville.edu](mailto:leigh.elles@louisville.edu)

Phone: 502.852.4415

## UofL Office of Graduate Admissions

Office hours: Monday – Friday 9 a.m. to 4 p.m. ET

Email: [gradadm@louisville.edu](mailto:gradadm@louisville.edu)

Phone: 502.852.6531

Fax: 502.852.6526

## UofL Office of Financial Aid

Office hours: Monday – Friday 9 a.m. to 4 p.m. ET

Email: [finaid@louisville.edu](mailto:finaid@louisville.edu)

Phone: 502.852.5511

Fax: 502.852.0812

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