Civil Engineering
+ Parks College of Engineering, Aviation and Technology

Degree(s)
+ Bachelor of Science (B.S.) in civil engineering

About the Faculty
The mission of the department of civil engineering is to prepare students for careers in the industry and/or higher studies. To support this mission, department faculty engage in scholarly activities, including research, teaching and service to the community, while maintaining a collegial and challenging learning environment for students.

Program Overview
The civil engineering program offered by the department of civil engineering at Saint Louis University’s Parks College of Engineering, Aviation and Technology is future-focused, incorporating the latest trends in civil engineering to address the current and future needs of the profession and our society.

Our graduates are well-prepared to enter professional practice and have the comprehensive skill set and leadership background needed to address society’s needs at the local, regional and global level. The civil engineering curriculum emphasizes professional practice preparation using project-based, hands-on learning methods.

The civil engineering program includes the following primary focus areas:
+ Green and sustainable design
+ Infrastructures design, evaluation and restoration
+ Transportation planning, modeling and design
+ Hydraulic and water resources modeling and design

In addition, students are exposed to entrepreneurship and the entrepreneurial mindset through the curriculum and extracurricular opportunities.

Some of the student organizations available for civil engineering majors to join include:
+ American Society of Civil Engineers: A distinguished professional organization representing the civil engineering profession.
+ Engineers Without Borders: Uses engineering as a way to help improve the lives of those living in third-world countries.
+ Institute of Transportation Engineers: An international educational and scientific association of transportation professionals.

Curriculum
The civil engineering program provides a solid foundation of coursework in the engineering sciences, including structural, environmental, geotechnical, hydraulic and transportation engineering. Solid mechanics, fluid sciences and graphics are also covered.

Our modern and well-equipped laboratories emphasize experimental methods and measurement techniques.

Civil engineers are problem solvers, so students experience design problem-solving throughout the curriculum, culminating in a two-semester capstone design sequence. By working on the capstone, students will become aware of how design impacts the technical aspects of engineering as well as society as a whole.

In addition, engineering student organizations provide many opportunities for students to find like-minded classmates to work on extracurricular projects, network with industry professionals and travel around the country. Such involvement helps students gain leadership skills and interact with practicing professionals.

Contact
Parks College of Engineering, Aviation and Technology
314-977-8203
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Graduate Programs
+ Master of Science (M.S.) in engineering, concentration in civil engineering
+ Doctor of Philosophy (Ph.D.) in engineering, concentration in civil engineering

Learn More  For course listings and more information about our faculty, visit parks.slu.edu/departments/civil-engineering.

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Admission Requirements
In addition to the general admission and matriculation requirements of the University, Parks College engineering programs have the following additional requirements:

+ GPA: Minimum cumulative 3.00 high school GPA for freshmen applicants and 2.70 college GPA for transfer applicants.
+ ACT/SAT: ACT composite score of 24 or higher, or SAT composite score of 1100 or higher. ACT sub scores minimums of 22 in English, 24 in Mathematics, 22 in Reading Comprehension and 22 in Scientific Reasoning, or SAT Math sub score of 600.
+ Coursework: Fifteen total units of high school work are required: three or four units of English; four or more units of mathematics including algebra I and II, geometry and pre-calculus; three or four units of science including general science, introduction to physical science, earth science, biology, physics or chemistry; two or three units of social sciences including history, psychology or sociology; and three units of electives.

Scholarships and Financial Aid
There are two principal ways to help finance a Saint Louis University education:

+ Scholarships: awarded based on academic achievement, service, leadership and financial need.
+ Financial Aid: provided in the form of grants and loans, some of which require repayment.

For priority consideration for merit-based scholarships, applicants should apply for admission by Dec. 1 and complete a Free Application for Federal Student Aid (FAFSA) by March 1.

For information on other scholarships and financial aid, visit the student financial services office online at finaid.slu.edu.

Internships and Careers
Competitive summer internships and cooperative education programs are available within the industry and with government agencies. Independent study on a civil engineering topic can be arranged under the direction of a faculty member.

SLU’s location in the heart of St. Louis gives students access to a number of industry contacts from around the area. This allows our students to easily partake in internships during the school year and network with professionals before graduation. Plus, the civil engineering faculty are very active in research and there are many opportunities for students to help conducting research during the academic year and summer.

After graduation, students with a B.S. in civil engineering can pursue graduate study or enter one of the most dynamic industries in the United States. Industry and government agencies have long recognized the quality of engineering graduates from Parks College. The Missouri and Illinois departments of transportation; the Missouri Sewer District; state, county and municipal engineering offices; the Army Corps of Engineers; private engineering firms, such as Black and Veatch, Parsons, etc.; construction companies; and the U.S. Air Force, Army and Navy are just a few of the places where civil engineering graduates can find opportunities.