Program Overview

The department offers a unique, hands-on undergraduate program culminating in a Bachelor of Science in computer engineering. The department provides a curriculum that incorporates analysis, design and development of computer systems containing hardware and software components.

The curriculum provides graduates with necessary skills for entry into the profession as productive and effective engineers or to pursue graduate education.

An additional feature of the program is that all students are exposed to entrepreneurship and the entrepreneurial mindset through the curriculum and extracurricular opportunities.

The computer engineering program is accredited by the Engineering Accreditation Commission of ABET (abet.org).

About the Faculty

The department uses the services of dedicated full-time faculty with diverse backgrounds and advanced degrees in various fields of electrical and computer engineering. Lectures and laboratories are delivered by the full-time faculty of the department.

Curriculum

The program coursework provides students with both breadth and depth in computer engineering. The program develops a student's ability to apply knowledge of mathematics, sciences and computer engineering to find solutions to practical problems. It ensures that graduates have an opportunity to work on multidisciplinary teams and develop effective communication skills.

In addition to a strong focus on computer skills and computer hardware and software, the program provides a broad design experience which is integrated throughout the program by introducing fundamental elements of the design process in coursework. The program also includes a two-semester design sequence to provide a meaningful and significant engineering design experience that focuses on and prepares students for professional practice.
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.

Internships and Careers

As a computer engineer, there are a variety of career paths spanning industrial or consulting positions. Our students are also prepared for graduate school and professional schools such as law, business administration or medicine.

Our graduates have found employment at such companies as:
+ Amazon
+ AT&T
+ Boeing
+ Department of Defense
+ Emerson Electric
+ Garmin
+ General Motors
+ Intel
+ Rockwell
+ Samsung
+ Texas Instruments
+ U.S. Air Force
+ And many others

Students are encouraged and assisted in obtaining summer internships with local and global companies through career services. Undergraduate research opportunities within the college and National Science Foundation-sponsored research activities are available during summer or regular semesters.

Undergraduate students are also encouraged to seek opportunities for research with faculty of the department or faculty in other departments.

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.

Contact

Parks College of Engineering, Aviation and Technology
314-977-8203
parks@slu.edu

Learn More For course listings and more information about our faculty, visit parks.slu.edu.

Graduate Programs

+ Master of Science (M.S.) in engineering, concentration in computer and electrical engineering
+ Doctor of Philosophy (Ph.D.) in engineering, concentration in computer and electrical engineering

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