DEGREE(S)

+ Bachelor of Science (B.S.) in computer engineering

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.

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).

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.

OFFICE OF ADMISSION, ONE NORTH GRAND BLVD., ST. LOUIS, MO 63103
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Contact
Parks College of Engineering, Aviation and Technology
314-977-8203
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

Revised March 2018
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 precalculus; 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.

WHY CHOOSE THIS PROGRAM?

+ The hands-on nature of the curriculum allows computer engineering students to apply theoretical concepts to practical applications. Students begin conducting experiments in department labs during their freshman year.
+ Students have the opportunity to work with faculty on research programs, enhancing their educational experience and preparing them for industry.
+ Computer engineering students are given a well-rounded approach that teaches not only technical skills but the business side of engineering as well.

Benefits of the computer engineering program also include several internship, research and career opportunities. 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.

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

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.