PROGRAM OVERVIEW

Broadening the focus and removing departmental boundaries, the bachelor of science in interdisciplinary engineering offers a new option and a different approach to the study of engineering. It is based in science, engineering and liberal arts, and is tailored to the individual student’s interests.

While based within the department of biomedical engineering, students may choose to define their study plan with emphasis on combinations of traditional engineering areas (like electrical and mechanical), combinations of science and engineering (such as chemistry, biology and electrical engineering), or combinations of science or engineering with the arts and humanities (like physics and music, or electrical engineering and archeology, or computer engineering and theater).

In addition, all students in the interdisciplinary engineering program are exposed to entrepreneurship and the entrepreneurial mindset through the curriculum and extracurricular opportunities.

The program is maintained at an honors-level and will accept only highly qualified students and retain only those who maintain a GPA of at least 3.0 (on a 4.0 scale).

DEGREE(S)

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

ABOUT THE FACULTY

Faculty mentors work closely with students to find the appropriate courses and thesis topics, so students can pursue their own individual career interests and goals.

CURRICULUM

A student’s study plan need not focus on an academic department. Instead, each student will identify a career goal, build a career plan and define a unique study plan. While the program offers great flexibility, it does set some boundaries and constraints. After the common courses, each student will define a focus area that will be the topic of the senior thesis, and will take courses that provide the necessary depth of knowledge in the general area of choice.

In order to satisfy University, college and departmental requirements, interdisciplinary engineering students are required to complete coursework in the math, science, engineering, arts, enrichment and focus areas. A total of 127 credits are required for graduation. Each student’s sequence of courses will vary according to credits taken in high school, ability level, individual preference and career goals. Additional program requirements may apply based on the student’s interests and career goals.

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Contact

Parks College of Engineering, Aviation and Technology
314-977-8203
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Graduate Programs

+ Master of Science (M.S.) in engineering
+ Doctor of Philosophy (Ph.D.) in engineering
For a full listing of graduate programs, visit graduate.slu.edu.

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?

+ Department boundaries are removed from interdisciplinary engineering program, allowing students to define their degree plan based on their individual interests.
+ Students can combine coursework in disciplines not just within engineering, but also in science, arts and humanities.
+ All students in the interdisciplinary program are exposed to entrepreneurship and the entrepreneurial mindset through the curriculum and extracurricular activities.

Benefits of the interdisciplinary engineering program also include several career opportunities. Graduates of the program will be prepared to make significant contributions to society by addressing a wide range of interdisciplinary problems. They will be valuable and likely assume a leadership role in industries that are increasingly interdisciplinary.

Industry and government agencies have long recognized the quality of interdisciplinary graduates from Saint Louis University’s Parks College. Our successful alumni have found employment at such corporations and government agencies such as:

+ Boeing
+ Nooter/Eriksen
+ General Electric
+ General Dynamics
+ NASA

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.