



SAINT LOUIS
UNIVERSITY™

Undergraduate Pathway in Engineering

About the Parks College of Engineering

Founded in 1927 by Oliver "Lafe" Parks, SLU's Parks College was America's first federally certified school of aviation. Today, Parks has a worldwide reputation for its aviation and aerospace engineering degree programs. The college has also emerged as a leader in disciplines such as electrical engineering, biomedical engineering, mechanical engineering and computer engineering.

Degrees offered at Parks

Students completing the undergraduate Pathway in Engineering will be able to choose between one of eight areas of study:

Biomedical Engineering

The Biomedical Engineering Department prepares students for careers ranging from fundamental engineering research to the application of engineering principles to the solution of biomedical design problems.

Civil Engineering

The Civil Engineering program incorporates the latest trends in Civil Engineering to address

the current and future needs of the profession and our society.

Computer Engineering

The Computer Engineering degree teaches students to learn the importance of both computer hardware as well as software, and how they function together in modern technology.

Electrical Engineering

A degree in Electrical Engineering teaches students how to deal with the technology of electricity, specifically in the design and application of circuitry and equipment for power generation and distribution, control systems and communications.

Engineering Physics

Engineering Physics is an academic program that prepares students for careers in technology research and development requiring more physics than found in traditional engineering programs along with enhanced analytical, computational, and laboratory skills.

Interdisciplinary Engineering

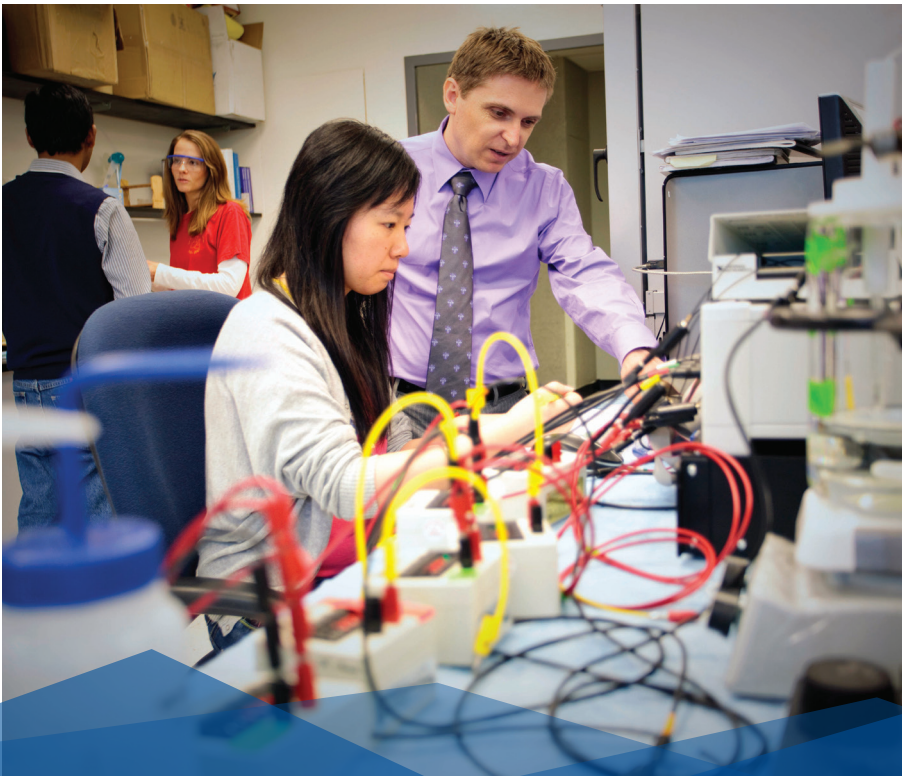
Broadening the focus and removing departmental boundaries, the Bachelor of Science in Interdisciplinary Engineering offers a new option and a different approach to the study of engineering. It is based in science, engineering and liberal arts, and is tailored to the individual student's interests.

Mechanical Engineering

A Mechanical Engineering education provides a unique, intellectually challenging, hands-on curriculum that integrates a broad-based technical knowledge with tangible skills. The students learn the principles of solid modeling during the first two semesters of study. Thereafter, they study creative problem-solving, design and product realization.

Physics

Students of the Physics program gain a solid foundation in analytical, computational, and laboratory skills through course work in mathematics, computer science, and physics. The physics curriculum includes courses in Classical Mechanics, Quantum Mechanics, Electricity and Magnetism, Thermodynamics and Statistical Mechanics, as well as Optics, Electronics, and Modern Physics.





Engineering

2-Semester Pathway Fall: August 21, 2017 Spring: January 11, 2018	Degree Program Components 124-128 credit hour program 15 credit hours apply from Pathway 109-113 credit hours remaining toward degree	Program Information
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Entry Requirements <ul style="list-style-type: none"> Secondary/high school degree or equivalent 2.75 minimum GPA on a 4.0 scale Language requirement: <ul style="list-style-type: none"> TOEFL iBT 60 (13 subscores in reading and writing) or IELTS 5.5 (5.0 subscores in reading and writing) or Password 6 or PTEA 44 or Completion of AE Level 5 	Semester 1	Course Title	Credit Hours	Progression Requirements <ul style="list-style-type: none"> Minimum 2.7 cumulative SLU GPA Grade of B or better in all classes counting toward major No C-/D-/F-/W-/I-/P-/NP-/S-/U grades Notes ¹ Students who have an interest in biomedical engineering, civil engineering, electrical and computer engineering and mechanical engineering would substitute the 1000-level introductory course with chair-recommended alternative course for those major interests. These courses are generally delivered through the INTO SLU Center and are for Pathway students only.
	EAP 1000 Academic Writing and Editing Skills I EAP 1020 Academic Reading and Study Skills I EAP 1030 Presentation and Speaking Skills MATH 1510 Calculus I or higher POLS 1000 or Introduction to Politics or POLS 1600 or Introduction to International Politics or THEO 1000 Theological Foundations EAP 1010 Recitation I UNIV 1010 University 101: Enhancing First-Year Success Total 16	Semester 2	Course Title	
	EAP 1200 Academic Writing and Editing Skills II EAP 1220 Academic Reading and Study Skills II MATH 1520 Calculus II or higher Discipline-specific Introductory Course ¹ FPA 1000 or Introduction to the Arts or SOC 1100 or Introduction to Sociology or WGST 1900 Introduction to Women's and Gender Studies EAP 1210 Recitation II Total 15			

1-Semester Pathway Fall: August 21, 2017 Spring: January 11, 2018	Degree Program Components 124-128 credit hour program 8 credit hours apply from Pathway 116-120 credit hours remaining toward degree
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Entry Requirements <ul style="list-style-type: none"> Secondary/high school degree or equivalent 2.75 minimum GPA on 4.0 scale Language requirement: <ul style="list-style-type: none"> TOEFL iBT 75 (17+ subscores in reading and writing) or IELTS 6.0 (5.5 subscores in reading and writing) or Password: 6.5 or PTEA 54 	Semester 1	Course Title	Credit Hours
	EAP 1200 Academic Writing and Editing Skills II EAP 1220 Academic Reading and Study Skills II MATH 1510 Calculus I or higher Discipline-specific Introductory Course ¹ General Elective EAP 1210 Recitation II UNIV 1010 University 101: Enhancing First-Year Success Total 16		

parks.slu.edu

The Engineering programs at Parks are accredited by the Engineering Accreditation Commission.

54% of undergraduate classes have fewer than 20 students

92% of graduates are employed in a job related to their major within six months

#96 in the National University Rankings
(U.S. News & World Report)