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

Program Overview
The aerospace engineering curriculum provides hands-on experiences that complement theoretical knowledge. Faculty members incorporate innovative engineering experiences in the classroom that shape the student’s mindset so they become thoughtful leaders and change agents in society. Fluids, thermal, material, structural testing, space systems laboratory equipment and wind tunnels provide an excellent opportunity to integrate theory with real-world applications. State-of-the-art computer laboratories along with advanced software such as CREO, MATHCAD, MATLAB, STK, SC/Tetra CFD, CES Material Selector and Abaqus are available for design, modeling, simulation and analysis.

Additionally, students have several extracurricular opportunities to participate in national and international competitions and activities organized by AIAA, SAE, NASA and AFOSR and are involved in the activities of student chapters of AIAA, SAE, SWE and SLU Robotics. Innovative programs like Weekly Innovation Challenge, Tinker Camp, Speakers Pioneering Innovation, Creativity and Entrepreneurship (SPICE) and iScholars help students acquire leadership skills and business acumen.

All students in the aerospace engineering program are exposed to entrepreneurship and the entrepreneurial mindset through the curriculum and extracurricular opportunities.

The aerospace engineering program is professionally accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineers and Technology (ABET).

About the Faculty
The faculty is at the center of our efforts to provide a challenging, high-quality educational experience, with one of the major strengths being that the faculty members are academically prepared in their special field of accounting and have professional experience in a variety of work settings. Many classes include applying theory to real-world situations.

Curriculum
Students of the aerospace engineering program at Parks College will gain a solid foundation of course work in fundamental engineering sciences before progressing towards traditional aerospace engineering courses. The program offers technical electives in broader areas of aerospace engineering to provide opportunities for students to gain greater depth and understanding. These engineering fundamentals and aerospace topics are then integrated into a sequence of two capstone flight vehicle design courses during senior year that provide greater depth in design. Students will learn the importance of design decisions not only on vehicle performance but on society as a whole. Well-equipped laboratory facilities emphasize measurement techniques and experimental methods that allow the student to verify the theory learned in the classroom.

The curriculum is designed to prepare students for professional careers in several fields of aerospace engineering involving aeronautical and space systems research, design, development, simulation, testing and systems integration. The curriculum provides excellent preparation for graduate studies.

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 aerospace and mechanical engineering
+ Doctor of Philosophy (Ph.D.) in engineering, concentration in aerospace and mechanical engineering

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

Revised  April 2015
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
Summer internships and cooperative education programs are available with industry in the St. Louis area as well as nationwide.

Funded undergraduate and graduate research opportunities are available with faculty members of the department. Funded research grants ranging from private industries to federal government research laboratories are available for qualified students.

Industry and government agencies have long recognized the quality of the aerospace engineering graduate from Saint Louis University’s Parks College. Lockheed Martin, Raytheon, General Dynamics, Northrop, Hughes, Boeing, Pratt-Whitney, General Electric as well as NASA and the U.S. Air Force, Navy and Army research centers are all corporations and government agencies where successful Parks alumni can be found.

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.

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