

SAINT LOUIS UNIVERSITY MADRID

ENGINEERING AND MATHEMATICS

DEGREE(S)

3 years in Madrid+1 year in St. Louis

+ B.S. in Aerospace Engineering

+ B.S. in Computer Engineering

1 year in Madrid+3 years in St. Louis

+ B.S. in Aeronautics, with a concentration in Aviation Science and a minor in Flight Science-Professional Pilot

2 years in Madrid+1 year in St. Louis+2 years in Washington University, St. Louis

+ B.A./B.S. in Chemical Engineering

2 years in Madrid+2 years in St. Louis

+ B.S. in Electrical Engineering

+ B.S. in Mechanical Engineering

+ B.S. in Engineering Physics

+ B.S. in Civil Engineering

+ B.S. in Biomedical Engineering

+ B.S. in Aeronautics, with a concentration in Aviation Management and a minor in Flight Science-Professional Pilot

+ B.A. or B.S. in Mathematics

1 year preparation+4 years for the degree

+ Engineering Preparation Year in Madrid

+ Minors in Mathematics and Engineering

PROGRAM OVERVIEW

Students who begin an engineering program at the Madrid Campus transfer to Parks College Parks of Engineering, Aviation, and Technology in St. Louis to complete their degrees. Parks College has a worldwide reputation for aviation and engineering degree programs such as electrical engineering, biomedical engineering, mechanical engineering and computer engineering.

Students can begin the Mathematics program at the Madrid Campus and then transfer to the St. Louis Campus for the final two years of the degree.

CURRICULUM

Engineering courses offered at SLU-Madrid:

+ Introduction to Aeronautics and Astronautics

+ Performance

+ Materials Science

+ Spanish Civil and Architectural Infrastructure: Ancient and Modern

+ Introduction to Electrical and Computer Engineering

+ Introduction to Electrical Engineering II

+ Electrical and Computer Engineering

+ Electrical Circuits I

+ Electrical Circuits II

+ Digital Design

+ Computer Architecture & Organization

+ Freshman Engineering I

+ Computer-Aided Design

+ Statics

+ Dynamics

+ Thermodynamics

+ Mechanics of Solids

+ Linear Vibrations

+ Fluid Dynamics

+ Analysis & Control of Linear Systems

Mathematics courses offered at SLU-Madrid:

+ Intermediate Algebra

+ College Algebra

+ Finite Mathematics

+ Survey of Calculus

+ Pre-Calculus

+ Calculus I

+ Calculus II

+ Discrete Mathematics

+ Calculus III

+ Principles of Mathematics

+ Linear Algebra for Engineers

+ Advanced Mathematics for Engineers

+ Differential Equations I

+ Introduction to Complex Variables

SLU.EDU/MADRID

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Contact

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Learn More For course listings and more information about our faculty, visit

<https://www.slu.edu/madrid/academics/departments/science-engineering/engineering-aviation-technology>

<https://www.slu.edu/madrid/academics/departments/science-engineering/math-computer-science.php>



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ENGINEERING AND MATHEMATICS

WHY CHOOSE THIS PROGRAM?

Engineers belong to the profession that is responsible for almost everything from leisure activities to medical treatment, mobile communication to modern transport systems.

Engineering degrees can lead to a vast number of career opportunities, with graduates in high demand in almost every sector of the economy. Within each engineering field, there are opportunities in research, design, development, and testing, as well as management, production, marketing, and sales. A degree in engineering can also provide a passport into the world of education.

Mathematics reveals hidden patterns that help us understand the world around us. Now much more than arithmetic and geometry, mathematics today is a diverse discipline that deals with data, measurements, and observations from science. Mathematics models natural phenomena, human behavior, and social systems.

ADMISSION REQUIREMENTS

- + Online application form // Common Application
- + 2 letters of recommendation (encouraged)
- + Curriculum vitae/résumé (encouraged)

First-year Students:

- + Secondary school academic transcripts
- + University entrance exam scores (SAT/ACT, IB diploma, A-levels, PAU/Selectividad, etc.)

Transfer Students:

- + College transcript(s)
- + Proof of high school graduation

Non-native English speakers must submit an official English exam (TOEFL or IELTS).

Detailed information is available on our website.

SCHOLARSHIPS AND FINANCIAL AID

SLU-Madrid is committed to supporting students—and their families—who choose to invest in themselves and their future by studying at the Madrid Campus. Each student, from any state in the U.S., any region in Spain, or any country in the world, is eligible for University-funded aid. Scholarship/financial aid programs available include:

- + Merit Scholarships
- + Visiting Student Scholarships
- + Grants and Loans
- + Administrative Support Scholarships
- + Jesuit High School Scholarships
- + Madrid Campus Antiguos Alumnos Award
- + Family Awards

For more information: financialaid-madrid@slu.edu

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