



MAJOR DIPLOMAS IN

- Software Engineering
- Information Systems
- Information Technology

In order to graduate from the Systems Engineering Undergraduate Program, students must prove that they have completed the intermediate level of English, French, German, Italian or Portuguese by submitting a language proficiency certificate issued by any of the institutes recognized by the University of Lima.

SYSTEMS ENGINEERING

Faculty of Engineering and Architecture

Graduate students from the Systems Engineering Undergraduate Program are prepared to face the challenges and demands of organizations in a globalized context. They propose, implement, validate and manage innovative solutions based on information technologies with a comprehensive approach, allowing organizations to satisfy their needs and achieve their strategic objectives.



UNIVERSIDAD
DE LIMA

SYSTEMS ENGINEERING

Faculty of Engineering and Architecture

LEVEL I	LEVEL II	LEVEL III	LEVEL IV	LEVEL V	LEVEL VI	LEVEL VII	LEVEL VIII	LEVEL IX	LEVEL X
Basic Mathematics ⁵	Calculus I ⁵	Fundamentals of Systems Engineering ²	Statistics and Probability I ³	Statistics and Probability II ³	Operations Research I ³	Simulation ³	Research Proposal Workshop ³	Research Seminar I ⁴	Research Seminar II ⁴
Research Methodologies ³	Economics and Business ³	Calculus II ⁴	Calculus III ⁴	Systems Modeling and Integration ³	Financial Management ³	Operations Management ³	Risk Management ³	Strategic Planning ³	Systems Control and Audit ³
Personal and Social Development ³	Linear Algebra ³	Informatics for Management ³	Accounting Management ²	Cost of Operations ²	Legislation and Ethics ³	Evaluation of Systems Engineering Projects ³	Digital Marketing ³	Project Management ³	Human Capital Management ³
Language and Communication I ⁵	Topics in Philosophy ³	Discrete Structures ²	Business Organization ³	Development of Managerial Skills ³	Startup Workshop ³	Business Intelligence Systems ³	ERP Systems ³	Advanced Information Systems ³	Enterprise Architecture ⁴
Globalization and Contemporary Peruvian Issues ⁴	Language and Communication II ³	Introduction to Programming ³	Object-Oriented Programming ³	Business Process Engineering ³	Data Engineering ⁴	Database Management ⁴	Decision Support Systems ³	Predictive Data Analytics ³	Big Data Analytics ³
	Social and Political Processes ³	Physics I ⁴	Fundamentals of Electricity and Electronics ³	Data Structures and Algorithms ³	Programming Languages ³	Software Engineering I ³	Machine Learning ³	Quality Assurance ³	Software Architecture ⁴
		Computer Architecture ³	Operating Systems ⁴	Human-Computer Interaction ³	Computer Networks ⁴	Web Programming ³	Software Engineering II ⁴	Information Technology Services Management ³	Information Technology Security ³
				Data Communication ³		Networks Seminar ⁴	Mobile Programming ³	Information Technology Architecture ⁴	Cybersecurity ³
				Internet of Things ³		Cloud Computing ³	Data Center Architecture ⁴		
Mandatory credits 20	Mandatory credits 20	Mandatory credits 21	Mandatory credits 22	Mandatory credits 20	Mandatory credits 20	Mandatory credits 18	Mandatory credits 16	Mandatory credits 16	Mandatory credits 10

Mandatory subjects of the School of Liberal Arts

Mandatory subjects of the Systems Engineering Undergraduate Program

Elective subjects of the Systems Engineering Undergraduate Program

Subjects in common among the undergraduate programs of the Faculty*



Credit Summary	No. of Credits	Type of Credit
Liberal Arts	40	Mandatory
Faculty	143	Mandatory
Total Elective Subjects	22	Elective
Total Credits	205	

Subject to curricular change.

*The Faculty of Engineering and Architecture is comprised of undergraduate programs in Architecture, Civil Engineering, Industrial Engineering and Systems Engineering.

