

Commercial Software Engineering with concentration in Design and Architecture

Year 1

> First semester

Logic

Programming 1

Operating Systems 1

Software Development 1

Database 1

Discrete Mathematics

Calculus 1

Communication 1

Second semester

Linear Algebra

Programming 2

Database 2

Software Development 2

Operating Systems 2

Communication 2

History of Software Development

Year 2

Third semester

Programming 3

Software Quality Engineering 1

Calculus 2

Software Development 3

Computer Networks 1

Software Quality Engineering 2

Statistics

Writing and Composition 1

Fourth semester

Programming 4

Algorithms 1

Software Development 4

Computer Networks 2

Software Quality Engineering 3

Software Quality Engineering 4

Writing and Composition 2

Ethics and Interculturality Perspectives

Year 3

> Fifth semester

System Programming

Algorithms 2

Software Development 5

Unix Administration

Unix Software Development 1

Programming Languages

Sixth semester

Software Development Management 1

Human-Computer Interaction Design

Software Development 6

Web Development

Asynchronous Programming

Social Issues and Professional Practice

Year 4

> Seventh semester

Software Development Management 2

Software Development Research Projects 1

Software Development Research Projects 2

Mobile Applications Development

Systems Integration

System Scalability

Eighth semester

Machine Learning

Software Development Research Project 3

Technical Documentation

Software Development Research Project 4

Technological Device Interaction

Cloud Development

Management and Leadership

English for Specific Purposes (ESP) for Software Engineers



The program combines training in intercultural communication skills, English for Business, and English for Software Engineering.

Year 1

> Primer semestre

ESP 1: Beginning English for Software Engineers I

Lab. M2L2 – Lab. M3L1 – Lab. M3L2

> Segundo semestre

ESP 2: Beginning English for Software Engineers II

Lab. M4L1 – Lab. M4L2 – Lab. M5L2 – Lab. M6

Year 2

> Tercer semestre

ESP 3: Business English

Lab. M7- Lab. M9

Cuarto semestre

ESP 4: English for Software Engineering I

ESP 5: Interview Preparation & Written Communication I

Lab M10

Year 3

Quinto semestre

ESP 6: English for Software Engineering II

Lab. M13- Lab. M14

Sexto semestre

Lab. M16- Lab. M17 - Lab. M18- Lab. M19

Year 4

Séptimo semestre

ESL 7: Interview Preparation & Written Communication II

Octavo semestre

For initial placement in the program, all students must complete a placement test, administered by the Admissions Department, before their first semester at the University. Based on their results, they will be assigned to Level 1 or Level 2 of the program.

^{*}Asynchronous practice labs for students.