

# Commercial Software Engineering with concentration in Automation and Testing

#### Year 1

#### First semester

Logic

Programming 1

Operating Systems 1

Database 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

Ethics and Intercultural Perspectives

Writing and Composition 2

### Year 3

#### Fifth semester

Algorithms 2

Operating Systems 3

Software Quality Engineering 5

Script Programming

Unix Administration

Software Quality Engineering 6

Web Software Quality

### Sixth semester

Operations Development 1

Software Quality Engineering 7

Database 3

Software Quality Engineering 8

Automation 1

Automation 2

Social Issues and Professional

Practice

## Year 4

### **Seventh semester**

Operations Development 2

Web Software Quality

Research Project in Software

Quality 1

Research Project in Software

Quality 2

Mobile Application Software Quality

Automation 3

# **Eighth semester**

Research Project in Software Development 3

Metrics Analysis and Risk Management

Research Project in Software Development 4

Performance Testing

Cloud Software Quality 1

Cloud Software Quality 2

# **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. 5L2 – 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.

<sup>\*</sup>Asynchronous practice labs for students.