

## ADMISSION REQUIREMENTS

Prospective students must have completed the general requirements for master studies, and they must:

- 1. Have finished a bachelor degree in Computers Science, Information Systems or related fields.
- 2. Minimum GPA of 2.80
- 3. Applicants with non-related degrees need to approve the following courses with a minimum of B:
  - Data structure (Java o C++)
  - Calculus I
  - Discrete mathematics or its equivalent
  - Data bases
  - Operating systems

#### FOR MORE INFORMATION, CONTACT:

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# INTER BARRANQUITAS



## MASTERS IN COMPUTER SCIENCE

COMPUTER SOFTWARE ENGINEERING

NETWORK SECURITY AND FORENSIC COMPUTATION

## PROGRAM DESCRIPTION



Computer science or information science focuses on the study of computation, information and automation. Such sciences have an important theoretically component, but they also have a highly relevant practical and applicable nature and its nature is interdisciplinary, These programs combine in person practical courses with online courses. Both masters have a core group of courses that will allow students to grasp the relevant information and skills and modern trends in computers science. Each also have unique courses and experiences that will promote development of an specific set of skills in computer software and computer network security and forensic computation. These graduate programs have the following options:

- Research and thesis or Project
- Integrative Project

Both masters are expected to be completed in two years or four semesters, and have 30 credits in total, as distributed below:

**CURRICULUM** 

- Master with thesis:
- -12 credits of core courses
- -12 credits of specialty courses
- -6 credits of operational courses
- Master with integrative project:
- -12 credits of core courses
- -15 credits of specialty courses
- -3 credits of operational courses



Core Courses Specialty Courses with Thesis (1) Specialty Courses with Integrating Project (2) Operational Courses <b>Total</b>	12 credits 12 credits 15 credits 6 credits <b>30 credits</b>
Core Courses	12 credits
COMP 5103 Analysis, Design and Implementation of Algorithms COMP 5115 Advanced Topics in Operating Systems COMP 5225 Data Communication Networks COMP 5235 Information Security	3 3 3 3
Specialty Courses: For Computer Software Engineering MS: (The student of thesis will select 12 credits or 4 courses, the students of integrating project will take all the following courses)	12-15 credits
COMP 5260 Software Engineering COMP 5270 Agile Process Development COMP 6040 Software Architecture COMP 6232 Software Testing and Quality COMP 6430 Advanced Data Bases Design	3 3 3 3 3
Specialty Courses: For Network Security and Forensic Computation MS: (The student of thesis will select 12 credits or 4 courses, the students of integrating project will take all the following courses)	12-15 credits
COMP 5240 Network Security COMP 5345 Computer's Security COMP 6030 Ethical Hacking COMP 6215 Forensic Computing COMP 6245 Computing Forensics in Network Environments	3 3 3 3 3
Operational Courses (for masters with thesis)	6 credits
COMP 6990 Thesis I COMP 6991 Thesis II	3 credits 3 credits
Operational Courses (for masters with integrative project	3 credits
COMP 6931 Integrating Project	3 credits

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