

## **Master in Sciences in Computer Sciences** **(Maestría en Ciencias en Ciencias en Computadoras)**

The program for this degree has been designed to provide advanced computer science training to professionals who are interested in learning graduate-level programming and networking skills that will enable them to adapt to and adopt emerging technologies in a bilingual environment. It gives students already busy in the job market the flexibility to learn programming at the Master's level with immediate potential application in the workplace.

The degree program is not designed with any particular specialization in programming or networking in mind. The constant technological advances occurring in the field of computer science in hardware, software and systems strongly recommend against this. Nevertheless, students may choose to take a core set of prescribed distributive classes in areas such as multimedia and data base programming.

The degree will allow our students to incorporate themselves in the industrial sector as bilingual professionals capable of promoting the adoption of new technologies and/or developing basic or applied programs with the chance of going on to doctoral studies. Classes are primarily taught in Spanish; therefore, proficiency in the Spanish language is required.

### **Admission Requirements**

In addition to fulfilling the general admission requirements for master's degree studies set forth above, candidates desiring to enter this Program must meet the following requirements:

1. Have completed a bachelor's degree (B.A. or B.S.) from an accredited institution in: (a) Computer Programming, (b) Information Systems including a minimum of 12 credits in computers; or (c) Business Administration including a minimum of 12 credits in computers;
2. Have passed 12 credits (or four out of seven courses) from the following list of courses with a minimum grade of "C":
  - a. C++
  - b. Visual Programming
  - c. Programming Languages
  - d. Discrete Methods
  - e. Operating Systems
  - f. Systems Analysis and Design
  - g. Artificial Intelligence
3. Have obtained a minimum average of 2.80 in the major and 2.50 in the grade point average at the bachelor's level.

### **REQUIREMENTS FOR THE MASTER IN SCIENCES IN COMPUTER SCIENCES** **(REQUISITOS DEL GRADO)**

Specialization Requirements	31 credits
Prescribed Distributive Requirements	<u>6</u> credits
Total	37

#### **Specialization Requirements - 31 credits**

COMP 5100	Algorithm Design	3
COMP 5110	Automata Theory and Formal Languages	3
COMP 5120	Artificial Intelligence	3
COMP 5325	Programming Languages	3

COMP 5510	Software Development and Design	3
COMP 5525	Seminar - I	3
COMP 6300	Networks - I	3
COMP 6315	Operating Systems	3
COMP 6400	Networks - II	3
COMP 6970	Integrated Seminar	4

**Prescribed Distributive Requirements**

Students should take six (3) credits from the following course 3

COMP 6010	Operations Research	3
COMP 6200	Multimedia and Hypermedia	3
COMP 6250	Communication Protocols	3

Students should take six (3) credits from the following course 3

COMP 6500	Data Base Workshop	3
COMP 6525	Programming Workshop	3
COMP 6615	Seminar II – Computation and Society	3
COMP 6650	Systems Administration	3

This program is offered online through Fajardo Campus please contact 407-218-4164 for more information.  
 (El programa se ofrece en línea a través del Recinto de Fajardo para más información llamar al 407-218-4164).