

Master of Science (M.S.) in Computer Science with Specialization in Networks and Security

The Masters Program in Computer Sciences with Specialization in Networks and Security aims to prepare professionals in the areas of analysis, design, implementation and development of efficient and secure computer network systems. This Program seeks to have students attain advanced, updated and research knowledge in the new technologies.

As part of the philosophy of the program, it is expected that a professional (graduate) possessing the following competencies and characteristics will be prepared as:

1. An authority in the theories, principles, techniques, methods and technological trends in the area of networks and security of computerized systems;
2. Qualified to apply research methodologies for problem solving;
3. An authority in the problems that will affect the operation of computer networks; and
4. Qualified to apply research methodologies for problem solving and analysis of situations.

Admission Requirements

In order to enter the Masters Program in Computer Science with a Specialization in Networks and Security students must meet the admission requirements of Inter American University of Puerto Rico, as established in the current Graduate Catalog, and in addition, must have passed the following courses or their equivalents:

- a) Information and Computer Literacy
- b) Introduction to Data Communication
- c) Network Administration I and II
- d) Computerized Systems Analysis and Design

Graduation Requirements

In addition to passing a comprehensive examination as established in the current Graduate Catalog, students must:

1. Comply with the of satisfactory academic progress norms at the graduate level.
2. Have completed a minimum of 33 credits of the specialization.
3. Submit a request for the comprehensive examination 30 days before the date on which the examination is administered, together with evidence of having paid the comprehensive examination fee.

TOTAL COST OF PROGRAM

Tuition	\$8,268
Fees	\$1,600
Books	\$1,736
Additional Computer Programs	\$2,300
Supplies	<u>\$1,152</u>

Total \$15,056

REQUIREMENTS FOR THE MASTER IN SCIENCES IN COMPUTER SCIENCES WITH
SPECIALIZATION IN NETWORKS AND SECURITY

Specialization Requirements 36 credits
Prescribed Distributive Requirements 3 credits
Total 39

Specialization Requirements - 36 credits

CSNS 5100	Network Analysis and Design	3
CSNS 5110	Principles of Research	3
CSNS 5121	Routing Technologies I	3
CSNS 5131	Network Switching Technologies I	3
CSNS 5222	Routing Technologies II	3
CSNS 5232	Network Switching Technologies II	3
CSNS 6100	Firewalls	3
CSNS 6230	Security Design in Networks	3
CSNS 6240	Assessment of Security in Networks	3
CSNS 6110	Security and Forensic Computing	3
CSNS 6220	Intrusion Detection Systems	3
CSNS 6330	Research Project	3

Prescribed Distributive Requirements - 3 credits

CSNS 5210	Internet Protocol Version 6	3
CSNS 5220	Cryptography in Networks	3
CSNS 6120	Remote Access Networks	3
CSNS 6310	Network Troubleshooting Techniques	3
CSNS 6320	Satellite Communications Systems	3

The Guayama Campus is authorized to offer this Program through distance learning.