



Universidad Politécnica de Puerto Rico
 Graduate School
 Graduate Certificate



Information Assurance and
 Security (GCIAS)

Total: 18 credits

Courses

- CECS 6005 – Principles of Information Security
- CECS 6015 – IT Auditing and Secure Operations
- CECS 6035 – Contingency Planning
- CECS 6045 – Law, Investigation and Ethics
- CECS 6130 – Data Communication Networks
- CECS 7570 – Computer Security

Annual Offering

Course	FA	WI	SP
CECS 6005 – Principles of Information Security	X	X	X
CECS 6015 – IT Auditing and Secure Operations	X		
CECS 6035 – Contingency Planning			X
CECS 6045 – Law, Investigation and Ethics	X		
CECS 6130 – Data Communication Networks		X	
CECS 7570 – Computer Security	X	X	X

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Program Justification

Information assurance and security has actually become important areas of interest in the Computer Science field due to the IT boom of the twenty-first century. The increase in the number of Internet applications and users, combined with the computerization of business processes, has made IAS professions of great demand. Studies have revealed that computer-based criminal activities are costing businesses and government organizations billions of dollars every year. Due to the shortage of information system security professionals there exists a need for comprehensive programs and certificates to educate more individuals in the field of Information Assurance and Security (IAS). As the US government in general, and the Department of Defense (DoD) in particular, become more dependent on computer networks, systems and software, we become more vulnerable to hostile intelligence gathering as well as computer network attacks. The need for graduate computer scientists specialized in IAS is pervasive in industry, scientific research, academic institutions, business, commerce, appliance manufacturing, and the government.

The goals of the UPPR GCIAS program are to:

1. Develop a national/internationally-recognized quality Graduate Certificate Program in Information Assurance and Security (GCIAS).
2. Develop joint research projects in IA between university and industry partnerships.
3. Prepare IT professionals in computer and information security areas, which are of great demand, worldwide.
4. Attract more faculty members with specializations in these areas of great concern.
5. Increase the quality of IAS education, which will lead to strengthening our curriculum and augmenting the quantity of research projects in the areas of information assurance and security.
6. Make UPPR an effective candidate pool for IT Security Managers, Computer Scientists, Engineers, and related positions in Puerto Rico and the Caribbean.