CYBER SECURITY MASTER CERTIFICATE

PROGRAM CODE: 2C36690

The **Cyber Security Master Certificate** is designed to prepare students who intend to pursue employment in cyber-security/forensics positions. The program provides a comprehensive knowledge and training in technical and managerial skills to analyze cyber-security threats from a variety of perspectives at the enterprise and national levels. This certificate option requires completion of the Cyber Security Analyst and Technician Certificates and additionally provides advanced courses in programming and operating systems. This certificate requires 33 units of required courses. A grade of C or better is required in each course taken.

Code	Title	Units
Required Courses - Cyber Security Technician (12 units):		
CIS 107 F	Introduction to Operating Systems	3
CIS 109 F	Personal Computer Security	2
CIS 160 F	Introduction to Cyber Security (formerly Introduction to Computer Forensics)	3
CIS 180 F	Introduction to Networking Concepts	4
Required Courses - Cyber Security Analyst (9 units):		
CIS 183 F	Network Security Fundamentals	3
CIS 222 F	Computer Scripting (formerly CGI/Perl Scripting)	3
CIS 290 F	Linux and UNIX Operating System	3
Required Courses (12 units):		
CIS 165 F	Cyber Security and Networking and Web (formerly Computer Forensics and Networking)	3
CIS 166 F	Cyber Security and Operating Systems (formerly Operating Systems and Computer Forensics)	3
CIS 168 F	Cyber Security Software Tools (formerly Tools for Computer and Network Forensics)	3
CIS 171 F	Ethical Hacking (formerly Network Intrusion and Detection)	3
Total Units		**33**

Outcome 1: Use a working vocabulary of cyber security technology.

Outcome 2: Assess and implement continuous network monitoring and provide real-time security solutions.

Outcome 3: Assess cyber security risk management policies in order to adequately protect an organization's critical information and assets.

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