COMPUTER / IT PROGRAMS
COMPUTER AND NETWORK SECURITY APPRENTICESHIP

Certificate of Completion

35 credit hours

This program meets the CAE2Y knowledge units designation and is specifically designed to prepare students as Information Systems Security (INFOSEC) Professionals, NSTISSI No. 4011 provide current Information Systems professionals with an Information Systems security certification to meet the needs of current and future employer requirements. Upon completion of this program students will be receive a university certification of completion and the Industry Certification - CompTIA A+, CompTIA Network +, and CompTIA Security+. Note, the labs use the INFOSEC virtual labs for hands-on training and the National Cyber League (NCL) Competitions.

Upon completion of the certificate:

- Students will be capable of plan, analyze, develop, implement, maintain, and enhancing information systems security programs, policies, procedures, and tools to ensure the confidentiality, integrity, and availability of systems, networks, and data.
- Students will have the knowledge to implement higher-level security requirements; integrate security programs across disciplines; define security plans and policies; assess new system design methodologies to improve software quality; and institute measures to ensure awareness and compliance.
- Students will have the knowledge to assess new security technologies and/or threats and recommend changes; review and evaluate security incident response policies; and develop long-range plans for IT security systems.
- Students will have understanding and knowledge to resolve integration issues related to the implementation of new systems with the existing infrastructure.

Any student who is ineligible for state, national, or industry licensure or certification is ineligible for entry into this program.

Institutional and Related Requirements –
Not applicable

Program Requirements – 35 hours

CS 123/L – Programming Fundamentals/Lab (4)
IS 101 – IT Essentials I: PC Hardware, Software, and Practical Applications (4)
IS 121 – IT Essentials II: Network Operating Systems (3)
IS 131 – Computer & Security Fundamentals (3)
IS 257 – Ethical Hacking, Computer and Network Defense and Counter Measures (3)
IS 297 – Cyber Security Technician Apprenticeship (18)

New Mexico General Education Curriculum (NMGEC) –
Not applicable

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