# **Network Security Certificate Program** Connie Justice, David Dellacca

## **Goal:**

### **To provide Information Assurance education** and training to students and professionals.

# **Effective Date:**

**Fall 2004** 

# **Course Descriptions:**

#### **Communication Security and Network Controls, CIT 303**

Provides students an overview of the field of Information Security and Assurance. Students explore current encryption, hardware, software, and managerial controls needed operate networks and computer systems in a safe and secure manner.

#### **Advanced Network Security, CIT 406**

Provides students with the in-depth study and practice of advanced concepts in applied systems and networking security, including security policies, access controls, IP security, authentication mechanisms, intrusion detection, and protection.

#### **Advanced Network Administration, CIT 415**

Covers advanced concepts for installing, configuring, and securing various types of network servers including enterprise, web, and mail servers. The course also covers the documentation of network systems' infrastructure and the testing of hardware and software network components.

#### **Digital Forensics, CIT 420**

Provides an introduction to the fundamentals of computer forensics and cyber-crime scene analysis. The various laws and regulations dealing with computer forensic analysis will be discussed. Students introduced to the emerging international standards for computer forensic analysis, as well as a formal methodology for conducting computer forensic investigations.

#### **Applied Secure Protocols, CIT 431**

Emphasizes the applied facets of cryptography for the information assurance and security professional. By the course students will be able to apply important cryptographic principles and to allow networks to communicate securely.

#### **Selective Course**

With this selective, chosen in consultation with an advisor, students will have the opportunity to supplement their studies with a course that relates to their individual security interests, or one that expands their knowledge in securityrelated areas.

Contact:

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