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 to 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 security-related areas.

Contact:
Connie Justice
Department of Computer and Information Technology
Purdue School of Engineering and Technology, IUPUI
723 W. Michigan St., SL 220
Indianapolis, IN 46202
cjustice@iupui.edu
317.278.3830 (office)