



# INFORMATION SECURITY

## MASTER OF SCIENCE

### DEPARTMENT OF TECHNOLOGY SYSTEMS

#### THE COLLEGE OF TECHNOLOGY AND COMPUTER SCIENCE AT ECU AND THE NATIONAL DEFENSE UNIVERSITY

East Carolina University, in partnership with the National Defense University, offers a Master's of Science degree with a concentration in **Information Security**. The program provides hands-on experiences in network security, intrusion detection, incident response and network security system design and management. The 18-hour concentration builds upon the 12-hour core to provide knowledge to build career opportunities in occupations such as: Network Architect, Information Security Officer, Network Administrator, Corporate Technology Trainer, Computer Analyst, Information Systems consultant, and Technology Integration Specialist.

**Core Courses:** (12 s.h.)

ITEC 6050 (3) Strategies for Tech Mgmt and Communications  
ITEC 6000 (3) Statistical Applications in Industry\*<sup>#</sup>  
ITEC 6406 (3) Capital Project and Cost Analysis\* for Industry  
ITEC 6200 (3) Technology Project Management\*

**Information Security Specialization Courses:** (18 s.h.)

DTEC 6823 (3) Information Security Management\*<sup>#</sup>  
DTEC 6865 (3) Fundamentals of Network Security  
DTEC 6870 (3) Advanced Network Security  
DTEC 6873 (3) Network Intrusion Detection and Incidence Response  
DTEC 6878 (3) Legal and Ethical Issues in Information Technology\*<sup>#</sup>  
DTEC 6883 (3) System Integrity for Information Technology

**Notes:**

\* 15 hours are transferred upon completion of the NDU's AMP and CIOC program & acceptance into the MSIT program.

# 9 hours are transferred upon completion of the NDU's IAC program & acceptance into the MSIT program

**ADMISSION STANDARDS**

An applicant must have a baccalaureate degree from an institution accredited by a regional association and have an overall GPA of 2.5 on a 4.0 scale on all undergraduate work. Must have completed the National Defense University's AMP and CIOC programs, which incorporate three key competency subject areas (Capital Planning and Investment, Security and Assurance, and Acquisition). The GRE requirement has been waived.

**Prerequisite:** Knowledge of basic computer network and computer operation as evidenced by any of the following: COMPTIA Network+ certification, or Microsoft Network Essential certification, or Cisco CCNA certification or equivalent course work.

**ADMISSION PROCEDURE**

- Request and complete a graduate application packet from the Office of Graduate Studies, <http://www.ecu.edu/gradschool/>. Applications will be evaluated on a case-by-case basis.
- Complete and return the Technology Systems (TECS) Entrance Application, found at: [http://www.tecs.ecu.edu/tsys/grad/Entrance\\_Application.doc](http://www.tecs.ecu.edu/tsys/grad/Entrance_Application.doc)
- Full requirements, responsibilities, and procedures of the Graduate School are located at: <http://www.ecu.edu/data-aa/qrcat/qrcat0506/qrcat0506.pdf>

For more than seven years, the Department of Technology Systems has offered the MSIT online. The program is Internet-based and students are advised, complete courses, collaborate on projects, perform research, and complete the degree via the Internet. Each student should have a state-of-the-art computer and reliable Internet access. Students report that they spend an average of 12 hours per week in preparation for and participating in each course. Average completion time is 21 months and the courses are scheduled in a tight sequence for the fall, spring, and summer semesters. Self-reliance is a must for successful students. Courses are offered using a variety of Internet-based tools including email, chat, threaded discussion, web, file transfer, audio, video, and collaboration tools. The first course in the program, ITEC 6050, introduces the use of these tools in a collaborative research/study environment.

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