

**CENTER FOR APPLIED INFORMATION TECHNOLOGY  
TOWSON UNIVERSITY**

**AIT 655:** Managing Information Security

**Credit Hours:** 3

**Prerequisite(s):** AIT600, AIT610 and AIT614

**Course Description:** This is an advanced study course in information assurance. The focus is on applying the various specific information assurance concepts, understandings, methods, processes and tools from previous Information Assurance (IA), Telecommunications and Information Technology (IT) courses to formulate the basis for sound business decisions. This course provides a sound footing in all aspects involved in IA management, including: needs analysis and risk assessment, policy formulation, security planning, integrating technologies, systems, networks, processes, and methodologies, documentation requirements, recovery processes, certifications and accreditation processes, best practice implementation, training and continuous improvement.

**Learning Objectives:**

1. Describe the principal functions of an Information Systems Security Officer (ISSO) and System Certifiers
2. Understand the importance of general enterprise-wide security awareness in the day-to-day protection of an enterprise
3. Demonstrate a fundamental knowledge of the laws and regulations enacted to combat computer crimes
4. Demonstrate a fundamental understanding of the impact of laws and regulations on both policies and practices of organizations
5. Establish fundamental information security policies and procedures
6. Describe the threats and vulnerabilities facing an enterprise - both its physical and technical infrastructure and its intellectual property
7. Demonstrate an understanding of the fundamental tactical and strategic means of detecting and monitoring anomalous activity
8. Apply basic Risk Management techniques to determine Business Continuity and Disaster Recovery Planning needs of the enterprise
9. Evaluate an organization's Contingency Planning process for adequacy

**Suggested Textbooks:**

1. Whitman, M.E., Mattord, H. J., *Management of Information Security*, 2<sup>nd</sup> edition, Thomson Course Technology
2. Bowen, P., Hash, J., Wilson, M., *Information Security Handbook: A Guide for Managers*, NIST Special Publication