

**NWACC Business & Computer Information Division
Computer Information Department Course Outlines**

NTWK 2243 SECURE ELECTRONIC COMMERCE (ON DEMAND)

Course Number and Title:

NTWK 2243 Secure Electronic Commerce

Catalog Description:

This course will give students an introduction to implementing a secure e-commerce site with exposure to marketing, entrepreneurship, advertising, business, fulfillment, software development, and payment gateways. Through a semester long group project students will design, secure and implement an e-commerce website. Instructional methods to include: lecture, discussion, reading assignments, hands-on labs, projects and Blackboard components. This course will require additional outside lab time.

Prerequisites:

NTWK 2014 Network & Information Systems (CCNA1) or Consent of Instructor

Credit Hours/Contact Hours/Load Hours:

3/3/3

Target Audience/Transferability

This course is designed for students majoring in networking, web technologies and other business professionals wanting to gain additional knowledge about securing web enabled technologies. NTWK 2243 will not transfer to most four year institutions for credit at this time.

Students Learning Outcomes:

Students completing the course will

- Implement information security technologies
- Implement internet security techniques
- Use certificates, the certificate hierarchy, policies and procedures
- Use public key cryptography and the public key infrastructure
- Demonstrate legal principles, legislation, regulation and guidelines governing electronic commerce
- Demonstrate electronic commerce models and business principles as they apply to design and implementation of web-based commerce
- Evaluate, update and maintain security architectures
- Apply best practice standards in determination of digital signature and certificates selection and application
- Apply security and privacy principles in order to provide a secure internet trading environment
- Design, create, update, and maintain e-commerce architecture

Topics:

- E-Commerce Overview
- E-Commerce Business Models and Concepts
- E-Commerce Infrastructure
- E-Commerce Presence
- E-Commerce Security
- Public Key Infrastructure
- Certificates
- Secure transactions
- Threats and Vulnerabilities

- E-Commerce Payment Systems
- E-Commerce Marketing and Advertising
- Ethical, Social and Political Issues in E-Commerce
- Legal Issues
- Privacy
- Online Content and Media
- Social Commerce
- Social networks, Auctions and Portals
- Supply Chain Management
- Collaborative Commerce

Assessment:

Lecture, discussion, reading assignments, hands-on labs, projects, Blackboard components, quizzes and exams.

The basic means of evaluation will be student scores on tests, lab assignments, projects and other assignments relating to the course material.

Students will demonstrate proficiency by scoring 70% or above on all homework, projects, quizzes, tests and lab assignments.