



## Information Systems Department

# Course Syllabus

## IS487 Secure Electronic Commerce

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**Catalog Description:** This course introduces to the student's secure e-commerce, focusing on the principles and concepts related to computer-based, electronic transactions. This course provides practical examples of how the security theories are applied in the digital world.

**Credit Hours:** 3 Credit hours: 3 Lectures per week 0 Labs. per week 0 Recitation per week

**Prerequisites:** IS 336

**Course Learning Outcomes:**

1. State the range of threats to e-commerce security.
2. Describe how cryptography can be, and is, used to achieve security.
3. Explain different standards in use for secure electronic commerce, such as certificates, MACs, etc.
4. Summarize standard security mechanisms, such as filters, proxies and firewalls.
5. Evaluate e-commerce systems currently in operation, such as electronic payment systems.
6. Explain the different protocols in use for secure electronic commerce, such as SSL, TLS and S/MIME.
7. Function effectively on teams to accomplish a common goal.
8. Communicate effectively in oral and written form.

**Major Topics:**

- Introduction to secure e-commerce
- Focusing on the principles and concepts related to computer-based, electronic transactions.
- Practical examples of how the security theories are applied in the digital world.
- Project Discussions

**Text Books:**

- Secure Electronic Commerce: Building the Infrastructure for Digital Signatures and Encryption (2nd Edition) 2nd Edition by Warwick Ford, Michael S. Baum , ISBN-13: 978-0130272768, ISBN-10: 0130272760



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#### Grading:

- The grading scale for this course is:
  - 95 - 100 A+ Passing
  - 90 - 94 A Passing
  - 85 - 89 B+ Passing
  - 80 - 84 B Passing
  - 75 - 79 C+ Passing
  - 70 - 74 C Passing
  - 65 - 69 D+ Passing
  - 60 - 64 D Passing
  - 0 - 59 F Failing
- Final grades will be determined based on the following components:
  - . 60% Semester Work
  - . 40% Final Exam
- Students may not do any additional work for extra credit nor resubmit any graded activity to raise a final grade.
- Late submissions will not be accepted for any graded activity for any reason.
- Students have one week to request the re-grading of any semester work.

#### Attendance Policy:

Students should attend 80% of the overall course hours taught in the semester as per the University regulations.

If a student fails to achieve this portion, he/she shall not be allowed to appear in the final exam and shall be awarded "DN" grade and repeat the course.

#### Cheating and Plagiarism Policy:

The instructor will use several manual and automated means to detect cheating and/or plagiarism in any work submitted by students for this course.

When a student is suspected of cheating or plagiarism, the instructor raises the issue to the disciplinary committee.



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**Communications:** Registered students will be given access to a section of the Learning Management System (LMS) for this course. LMS will be used as the primary mechanism to disseminate course information, including announcements, lecture slides, assignments, and grades.

Communication with the instructor on issues relating to the individual student should be conducted using CIS email, via telephone, or in person.