APC 420: Computer Security I – Course Syllabus

IMPORTANT: This course syllabus document contains basic information about the course. A final syllabus with detailed guidelines, instructor information, project information, rubrics, course/university policies, and other course-related information will be provided to students upon course enrollment

Course Description and Objectives

This course covers topics spanning security and risk management, security engineering, identity and access management, and security operations. Topics include cryptography, access control models, malicious software and countermeasures, security policy, security model, trust, vulnerability assessment, security standards and evaluation, administration and auditing, and secure storage.

By the end of this course, you will be able to:

- Understand the fundamental concepts of security models, protocols, and cryptography.
- Evaluate the security risk posed by malicious software and mitigate the risk.
- Administrate and audit security policies and access control models.
- Assess security vulnerabilities and apply security standards.

Prerequisites

- APC 350: Programming II

Grading

Evaluation Methods

Your final grade will be based on your performance on the following:

Item(s)	**Weight**
Homework Assignments	84%
Exam	16%

Grading Scale

The following grading scale is used to evaluate all course requirements and determine your final grade:

90–100%	A
80–89%	B
70–79%	C
60–69%	D
0–59%	F

Workload

Students should expect to spend 144 credit hours per semester to complete the activities and assignments in this course. In a fall or spring semester, the time to dedicate per credit will range between 7-10 hours per week and in summer semester between 10-13 hours.