

APC 480: Computer Security II – 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 communication and network security, security assessment and testing, software development security, and asset security. Specific topics include operating system security, network security (e.g. firewalls, tunneling, intrusion detection, and wireless networking), browser security, and application security (e.g. database security, email security, payment system security, and digital-rights management).

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

- Study security mechanisms for conventional operating systems, explain common vulnerabilities in computer programs and their countermeasures.
- Identify network security threats, investigates solutions to network security issues.
- Analyze internet security protocols, understand security policies, and apply firewalls and intrusion detection systems.
- Gain familiarity in recent security related developments such as the disruptive blockchain technology.

Prerequisites

- APC 360: Database Management I
- APC 400: Applied Communication Networks
- APC 420: Computer Security I
- APC 450: Operating Systems Theory and Practice

Grading

Evaluation Methods

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

Item(s)	Points	Percentage of Final Grade
Assignments	13 Assignments @ 10 points each	100%

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.