



Syllabus for CYB755 Security Administration

NOTE: This syllabus document contains the basic information of this course. The most current syllabus is available in the full course.

Course Description

Covers the policy and governance aspects of security. Topics include application of security policies, standards, procedures and guidelines to administration of IT and communications, assessment of compliance including contractual, legal, industry standard, privacy and regulatory requirements, and implementation of security audits and assessment of security performance and security policy efficacy.

Prerequisite(s)

CYB 700, 703, 705, 707, 715, 720

Program Outcomes

This course addresses the following competencies and program outcomes of the Masters of Science in Cybersecurity:

- Program Outcome 3: Design, evaluate, and test systems including networks, computers, and hardware for security requirements
- Program Outcome 7: Conduct security risk management assessments
- Program Outcome 8: Develop and implement threat management framework
- Program Outcome 9: Evaluate and create security policies and processes for an organization and apply appropriate security frameworks
- Program Outcome 10: Implement identity and access management controls
- Program Outcome 11: Assess trends in computer criminology and social behaviors related to technology use including physical security
- Program Outcome 12: Engage in ethical decision-making and apply ethical principles to cybersecurity
- Program Outcome 13: Engage in professional collaboration and communication with technical and nontechnical stakeholders on issues related to security

Course Outcomes

Upon completing this course, you will be able to do the following:

1. Develop organization-wide security policies
2. Identify the components of governance in security
3. Assess the application of a security framework to an organization
4. Create procedures, guidelines, and processes for a particular organization
5. Assess security performance and efficacy in an organization



Course Components

Quizzes

Every topic will include a quiz that covers foundational terminology and concepts.

Discussions

The purpose of lesson discussions is to engage in critical reflection and dialogue with classmates regarding course content.

Major Project: Revised Security Plan

Throughout the semester, you will be working on an implementable security plan for an organization of your choice.

Grading

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

Grade	Percentage Range	Assignment	Points
A	>94%	Quizzes (12 @ 25 pts.)	300
A-	>90%	Discussion (6 @ 20 pts.)	120
B+	>87.5%	Assignment 1: Project start	30
B	>85%	Milestone 1: Threat Model Report	30
B-	>80%	Milestone 2: Report on Review of Security Policies	30
C+	>77.5%	Milestone 3: Revision of Security Implementation Report	30
C	>70%	Milestone 4: Compliance and Audit Report	30
C-	>65%	Milestone 5: Report on Future Security Challenges	30
F	<65%	Final Presentation & Peer Evaluations	100
		Final Report	100
		Total Points	800