

Course Syllabus Part I

CYBR 320, Operational Security

3 Credit Hours

Course Description

This course focuses on the skills required to operate a security program within an organization. Coverage includes the practical application of security practices in an operational environment. Topics that comprise this course include security structure, leading security projects, policy management, human factors of security, and physical security methods.

Course Prerequisites

None

Course Objectives

Students who successfully complete this course should be able to:

1. Distinguish the key security requirements through the incorporation of confidentiality, integrity, and availability.
 2. Evaluate information security projects and initiatives through the definitions of requirements, development of project plans, and delivery of results.
 3. Interpret policies and procedures to ensure that all business operations are followed and enforced through internal standards.
 4. Analyze different methods of understanding human factors in security to include social engineering, fraud prevention, and essential non-technical defenses.
 5. Differentiate methods of risk assessment for physical security.
-

Grading Scale

Example 1:

93 – 100% = A	87 – 89% = B+	77 – 79% = C+	67 – 69% = D+
90 – 92% = A-	83 – 86% = B	73 – 76% = C	63 – 66% = D
	80 – 82% = B-	70 – 72% = C-	60 – 62% = D-
			0 – 59% = F

Topic Outline

- I. Introduction to Operational Security
- II. Information Security Modeling
 - a. Confidentiality requirements
 - b. Integrity requirements
 - c. Availability requirements
- III. Security Project Leadership
 - a. Technical projects
 - b. Operational projects
 - c. Risk analysis
- IV. Security Policy Management
 - a. Policies, Standards, and Guidelines
 - b. Policy types and development
 - c. Policy Implementation
 - d. Policy compliance and expectations
- V. Human Factors management
 - a. People vs. Technology
 - b. The Insider Threat
- VI. Physical Security
 - a. Access controls
 - b. Contractor/Consultant controls
 - c. Monitoring and recording
 - d. Data center security