

CLEVELAND INSTITUTE OF ELECTRONICS SYLLABUS

Course Number: S400

Course Name: Security Policies and Awareness

Course Clock Hours: 90

Course Prerequisites: S370

Course Co-requisites: None

Course Contact Information: www.cie-wc.edu faculty@cie-wc.edu
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Course Description: This course is designed to cover all of the need-to-know information about staying secure, including maintaining a secure environment and how to avoid security attacks. The student will learn specific topic including: Introduction to Security; Desktop Security; Internet Security; Personal Security; Wireless Network Security; and Enterprise Security. The ultimate goal is to increase an understanding of information security issues and practices whether at home or in the office.

Course Objectives: Upon completion of this course the student will:

- Analyze computers and networks to protect them from increasingly sophisticated attacks
- Discuss basic security concepts
- Recommend and implement strategies to defend networks from outside attacks

Course Readings: The required readings will be drawn from the textbook Security Awareness: Applying Practical Security 4th Edition (ISBN 1111644187). The author is Mark Ciampa and the publisher is Course Technology / Cengage Learning. The study guide was written by Dennis Vargo. Students should complete the required readings and solve all problems in the exercise sections before continuing to the next topic.

Student Evaluation and Grading: There are eight lessons in this course. The lessons are broken into six exams and two projects. The eight lessons conclude with an examination; all examinations are open book. The minimum passing score of 70% must be achieved but if the score is less than 70%, the lesson must be retaken to earn a passing score of 70% overall. The fifteen scores are averaged together and constitute 100% of the course grade.

93% - 100%	A	The final grade for this course will be determined as follows:	
86% - 92.9%	B	6 examinations + 2 projects =	100%
78% - 85.9%	C		
70% - 77.9%	D		

Course Schedule: You should complete the following lessons in the order shown in the table. It is best to complete 1-2 lessons per week to maintain your schedule.

Lesson Number	Title of Lesson	Topics Covered
4001C	Introduction to Security	<ul style="list-style-type: none"> • Challenges of securing information • Types of attackers that are common today • The steps in a defense and a comprehensive defense strategy
4002C	Desktop Security	<ul style="list-style-type: none"> • The different types of hardware and software attacks • Types of desktop defenses • How to recover from an attack
4003C	Internet Security	<ul style="list-style-type: none"> • How the World Wide Web and e-mail work • The different types of Internet attacks • The defenses used to repel Internet attacks
4004C	Personal Security	<ul style="list-style-type: none"> • Attacks on personal security • The dangers of identity theft • The defenses against personal security attacks
4005C	Wireless Network Security	<ul style="list-style-type: none"> • What a network is and the different types of networks • The different attacks that can be launched against a wireless network • The steps necessary to secure a wireless network
4006C	Enterprise Security	<ul style="list-style-type: none"> • How redundancy planning and disaster recovery planning benefit on organization • What a policy is and how it is used • The different types of security policies
4007C	Case Project 1	<ul style="list-style-type: none"> • Practical case studies from chapters 1 to 3
4008C	Case Project 2	<ul style="list-style-type: none"> • Practical case studies from chapters 4 to 6