



Critical Infrastructures and Cyber Protection Center (CICPC)
Professional Development Programs

Security+ Examination Review Program
Sample Syllabus

Live on Saturdays
Morning Session: 8:00 AM – 12:00 PM

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Number of Live Meetings: 10

Course Description:

Public, government and industry recognition of the Security+ credential makes it a valuable, professional certification. Organizations now use it as a factor in obtaining qualified expertise for information assurance / information security positions. The Department of Defense Directive (DoDD) 8570.1 identifies the Security+ credential as fulfilling the requirements for Information Assurance Technical (IAT) Level II and Information Assurance Management (IAM) Level I certification. This course will review the entire Security+ Common Body of Knowledge (CBK) and provide insight into test taking strategies for the examination.

This course will be conducted live in 10 sessions or modules. Each module corresponds to the review text structure and the CBK. Sessions are conducted live and online utilizing the Capitol College Centra delivery platform and each session is recorded for the student to replay as needed to supplement the live instruction or make up a session where live attendance was not possible.

Course Objectives:

1. Provide a comprehensive review of the information contained in each of the 5 CBK areas collected and maintained by the Computing Technology Industry Association (CompTIA).
 - General Security Concepts
 - Communications Security
 - Infrastructure Security
 - Basics of Cryptography
 - Operational/Organizational Security
2. Provide students with relevant test taking strategies for the Security+ examination.
3. Review of sample representative examination questions and provide analysis why specific answers were chosen as the “best” answer.
4. Provide an opportunity to take a timed practice examination during an asynchronous session.

Principle Topics Covered:

1. Introduction and CBK Review
2. General Security Concepts
3. Identifying Potential Risks
4. Infrastructure and Connectivity
5. Monitoring Activity and Intrusion Detection
6. Implementing and Maintaining a Secure Network
7. Securing the Network and Environment
8. Cryptography Basics, Methods, and Standards
9. Security Policies and Procedures
10. Security Management

The numbering convention of the CBK has no significance to the module presentation format or sequencing.

Required Texts:

Title: CompTIA Security+ Study Guide, Deluxe Edition

Authors: Mike Pastore and Emmett Dulaney

Publisher: Wiley Publishing

ISBN: 0-470-03821-7

Instructional Methods:

The basic mode of instruction will include live classes and research learning. Live classes will be conducted with audio. Your instructor presents the live classes. Students can visit the classroom at any time for additional preparation and review of previous lessons, including the playback of recorded lectures. Both individual and small groups may participate by utilizing the features of Blackboard to collaborate, respond to questions and clarify the subject matter as necessary. Live (synchronous) sessions will be used for CBK area review, class discussions, and question and answer periods. Make sure that you take the time to familiarize yourself with the software and instructions that were provided by Capitol College and CentraOne. If you have any technical questions about Capitol Online or CentraOne and your system, the Capitol College helpdesk staff will be happy to assist you.

Live Sessions:

Instructors present the Live sessions. All students are encouraged to attend Live “synchronous sessions.”

Live “synchronous sessions” are intended to clarify and strengthen the material students have covered in the reading and other research. An active rather than passive role by the student is essential in “online” education. The sessions will consist of discussion and review of assigned material. Discussions will focus upon those areas and issues where comprehension is substantially enhanced by additional elaboration or illustration and those of a controversial nature. The instructor will attempt to emphasize the points and factors that are most important and, in this way, focus on the test taking strategy objectives for this course.

CentraOne has full-time “live mic” capability. Please keep the following in mind:

1. Only one person should “speak” at a time.
2. Students should raise their “electronic hand” as if they were in a classroom. The Professor will call on students who have raised their hand to make a comment or ask a question. Questions/comments will be addressed in the order they were received.
3. Centra also has text “chat” capability. When using text chat enter your comment in short phrases. If you want to comment or ask a question simply send a “Text chat” message to the Professor or raise your “electronic” hand.
4. Following these rules will assist in making the eLearning environment as productive as possible.

Course Outline

Security+ Examination Review

Live on Saturdays: (8:00 - 12:00 PM)

(L) = Live Session (with the Instructor) (A) = Asynchronous / Blackboard (without the Instructor)

Date	Session	Module	Topic	Instructor	Readings/URLs
	Session 00		Preparation	Students	Download Syllabus, Lecture Slides, any Additional Readings
TBA	Session 01	MOD 1	Introduction and CBK Review	TBA	Communications Check, and Orientation and Introduction.
TBA	Session 02	MOD 2	General Security Concepts	TBA	<u>Reading</u> : Text Chapter 1
TBA	Session 03	MOD 3	Identifying Potential Risks	TBA	<u>Reading</u> : Text Chapter 2
TBA	Session 04	MOD 4	Infrastructure and Connectivity	TBA	<u>Reading</u> : Text Chapter 3
TBA	Session 05	MOD 5	Monitoring Activity & Intrusion Detection	TBA	<u>Reading</u> : Text Chapter 4
TBA	Session 06	MOD 6	Implementing & Maintaining a Secure Network	TBA	<u>Reading</u> : Text Chapter 5
Student Time	Async 1		Exam Review Questions	Individual Study	<u>Text CD-Rom</u>
TBA	Session 07	MOD 7	Securing the Network & Environment	TBA	<u>Reading</u> : Text Chapter 6
TBA	Session 08	MOD 8	Cryptography Basics, Methods, & Standards	TBA	<u>Reading</u> : Text Chapter 7
Student Time	Async 2		Exam Review Questions	Individual Study	<u>Text CD-Rom</u>
TBA	Session 09	MOD 9	Security Policies & Procedures	TBA	<u>Reading</u> : Text Chapter 8
TBA	Session 10	MOD 10	Security Management	TBA	<u>Reading</u> : Text Chapter 9