

# Collin College - Continuing Education

## COURSE SYLLABUS

### COURSE INFORMATION

**Course Number:** CTIA 6395

**Course Title:** CompTIA Security+ Certification

**Course Description:** Preparation for CompTIA's Security + exam, validating technical competency in security administration and support.

**Suggested Course Prerequisite(s):** CompTIA Network+

**Course Resources (provided):**

The Official CompTIA Security+ Student Guide (Exam SY0-601) eBook  
CompTIA  
CertMaster Labs for Security+ (SY0-601) - Student Access Key  
CompTIA Security+ ( SY0-601) Voucher

**Student Learning Outcomes:** Demonstrate skills required to pass CompTIA Security+ certification exam.

**Certification Notes:** Part of CompTIA certification series.

**What Skills Will You Learn?**

- **THREATS, ATTACKS & VULNERABILITIES**- Detect various types of compromise and have an understanding of penetration testing and vulnerability scanning concepts
- **IDENTITY & ACCESS MANAGEMENT** - Install and configure identity and access services, as well as management controls
- **TECHNOLOGIES & TOOLS** - Install, configure, and deploy network components while assessing and troubleshooting issues to support organizational security
- **RISK MANAGEMENT** - Implement and summarize risk management best practices and the business impact
- **ARCHITECTURE & DESIGN** - Implement secure network architecture concepts and systems design
- **CRYPTOGRAPHY & PKI** - Install and configure wireless security settings and implement public key infrastructure

**Lesson Plan – course topics:**

- Comparing and Contrasting Attacks
- Comparing and Contrasting Security Controls
- Assessing Security Posture with Software Tools
- Explaining Basic Cryptography Concepts
- Implementing a Public Key Infrastructure
- Implementing Identity and Access Management Controls
- Managing Access Services and Accounts
- Implementing a Secure Network Architecture
- Installing and Configuring Security Appliances
- Installing and Configuring Wireless and Physical Access Security
- Deploying Secure Host, Mobile, and Embedded Systems
- Implementing Secure Network Access Protocols
- Implementing Secure Network Applications
- Explaining Risk Management and Disaster Recovery Concepts
- Summarizing Secure Application Development Concepts
- Explaining Organizational Security Concepts

**Course Sessions:**

Listed are guidelines to indicate all topics that will be covered during your course. Do not plan your personal calendar based on these sessions. Your instructor will give you a calendar for your class that will indicate specific topics, assignments, and days.

**Method of Evaluation:**

Unless otherwise stated, course completion is evaluated on the basis of attendance. Students must be in attendance 90% of the class time in order to be considered a successful completer of the course.

Students must be in attendance 90% of each course in a certificate series for successful completion and to earn a certificate as specified.

Students must complete all courses (core and no. of elective courses needed) to complete a certificate series within two years from start date of the first course taken.

**Refund Policy:**

Please refer to [www.collin.edu/ce/inforegistrar.html](http://www.collin.edu/ce/inforegistrar.html) for our refund policy. No refunds after the start time of the first class.

**Americans with Disabilities Act:**

Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student's responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current Collin Student Handbook for additional information.