



## The University of Arizona South Continuing Education UASCE 389 - CISSP Exam Review

Cover the 10 domains required for Certified Information Systems Security Professional (CISSP) certification in 40 hours at the University of Arizona South Continuing Education in Sierra Vista. This class is ideal for information security professionals attempting to achieve CISSP certification. Classes are offered during the day or evening. See [www.uasce.org](http://www.uasce.org) for pricing and schedule details.

### INFORMATION SECURITY AND RISK MANAGEMENT

- The Business Case for Information Security Management
- Core Information Security Principles: Availability, Integrity, Information Security Management Governance
- Organizational Behavior
- Security Awareness, Training, and Education
- Risk Management
- Ethics
- Data Classification Policy
- Data Handling Policy

### ACCESS CONTROL

- Definitions and Key Concepts
- Access Control Categories and Types
- Access Control Threats
- Access to Systems
- Access to Data
- Intrusion Detection and Prevention Systems
- Access Control Assurance

### CRYPTOGRAPHY

- Key Concepts and Definitions
- Encryption Systems
- Message Integrity Controls
- Digital Signatures
- Encryption Management
- Cryptanalysis and Attacks
- Encryption Usage
- References
- Sample Questions

### PHYSICAL (ENVIRONMENTAL) SECURITY

- Site Location
- The Layered Defense Model
- Information Protection and Management Services

## **SECURITY ARCHITECTURE AND DESIGN**

Security Architecture and Design Components and Principles  
Security Models and Architecture Theory  
Security Product Evaluation Methods and Criteria

## **BUSINESS CONTINUITY AND DISASTER RECOVERY PLANNING**

Organization of the BCP/DRP Domain Chapter  
Terminology  
Appendix A: Addressing Legislative Compliance within Business Continuity Plans

## **TELECOMMUNICATIONS AND NETWORK SECURITY**

Basic Concepts  
Layer 1: Physical Layer  
Layer 2: Data-Link Layer  
Layer 3: Network Layer  
Layer 4: Transport Layer  
Layer 5: Session Layer  
Layer 6: Presentation Layer  
Layer 7: Application Layer  
Trivial File Transfer Protocol (TFTP)

## **APPLICATION SECURITY**

Domain Description and Introduction  
Applications Development and Programming Concepts and Protection  
Audit and Assurance Mechanisms  
Malicious Software (Malware)  
The Database and Data Warehousing Environment  
Web Application Environment

## **OPERATIONS SECURITY**

Privileged Entity Controls  
Resource Protection  
Continuity of Operations  
Change Control Management

## **LEGAL, REGULATIONS, COMPLIANCE AND INVESTIGATIONS**

Major Legal Systems  
Information Technology Laws and Regulations  
Incident Response  
Computer Forensics