

Bossier Parish Community College  
Master Syllabus

**Course Prefix and Number:** CTEC 220

**Credit Hours:** 3-3-0

**Course Title:** Information System Security

**Course Co-requisite:** CTEC 287

**Textbook(s):** CompTIA CertMaster Learn for CASP+ ISBN: 978-1-64274-385-2

**Course Description:** This course is a comprehensive overview of all the aspects of information system security related to the CompTIA CASP certification. This course covers all the exam objective (domains): Risk Management, Enterprise Security Architecture, Enterprise Security Operations, Technical Integration of Enterprise Security, and Research, Development and Collaboration.

**Learning Outcomes:**

At the end of this course, the student will:

- A. identify access control concepts, techniques, and attacks;
- B. apply application security techniques used in system development;
- C. describe security controls and techniques;
- D. identify network security layers and technologies;
- E. apply risk management methods to businesses;
- F. identify cryptographic concepts and techniques;
- G. identify incident response and recovery procedures; and
- H. describe the different types of enterprise storage.

To achieve the learning outcomes, the student will or will be able to:

(The letter designations at the end of each statement refer to the learning outcome(s).)

1. explain access control concepts (A);
2. explain access control techniques and attacks (A);
3. explain system development (B);
4. describe application security techniques (B);
5. describe auditing techniques (C);
6. identify network layers (D);
7. recognize network technologies (D);
8. perform a risk assessment (E);
9. describe cryptography and what technique to use (F);
10. perform an incident response (G); and
11. apply enterprise storage techniques (H).

**Course Requirements:**

- To pass the course, student must achieve a course average of 70% or above.
- Students must have access to a computer (not mobile device), Microsoft Office, and the Internet to complete the assignments. Computer, software, and the Internet are available to students on campus during scheduled computer lab times and in the Learning

Commons located in the BPCC Library.

- Students are required to use BPCC's LMS and are encouraged to use the BPCC Library to research topics and employment opportunities.

**NICE Framework Categories:**

Securely Provision (SP)	Operate and Maintain (OM)	Oversee and Govern (OV)
Protect and Defend (PR)	Analyze (AN)	Collect and Operate (CO)
Investigate (IN)		

**Specializations:**

- Network Security Engineering
- Secure Cloud Computing

**CAE Knowledge Unit Mapping:**

- Advanced Cryptography (ACR)
- Basic Cyber Operations (BCO)

**Course Grading Scale:**

- A = 90 - 100
- B = 80 - 89
- C = 70 - 79
- D = 60 - 69
- F = 0 - 59

**Attendance Policy:**

Each student is expected to attend class regularly; excessive unexcused absences constitute grounds for suspension. Refer to the student handbook for [Attendance Policy](#).

**Course Fees:** This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams and/or clinical fees.

**Nondiscrimination Statement:** Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

Coordinator for SECTION 504 AND ADA  
Angie Cao, Student and Disability Services Specialist  
Disability Services, F-254  
6220 East Texas Street  
Bossier City, LA 71111  
Phone: 318-678-6511  
Email: [acao@bpcc.edu](mailto:acao@bpcc.edu)

Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

Equity/Compliance Coordinator  
Teri Bashara, Director of Human Resources  
Human Resources Office, A-105  
6220 East Texas Street  
Bossier City, LA 71111  
Phone: 318-678-6056  
Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.