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): <u>CompTIA CertMaster Learn for CASP+</u> ISBN: 978-1-64274-385-2 and CompTIA CertMaster Labs for CompTIA CASP+ (CAS-004) ISBN: 978-1-64274-383-8

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:
1. A student must successfully complete the course with an average of 70% or above on the combined learning outcomes.
2. Each student is expected to attend classes regularly; excessive unexcused absences constitute grounds for suspension (refer to the student handbook for attendance policies).

Course Grading Scale:
>A = 90 - 100
>B = 80 - 89
>C = 70 - 79
>D = 60 - 69
>F = 0 - 59

Attendance Policy: The college attendance policy is available at
http://catalog.bpcc.edu/content.php?catoid=5&navoid=369

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.

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)

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
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Equity/Compliance Coordinator

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