ILLINOIS VALLEY COMMUNITY COLLEGE

COURSE OUTLINE

DIVISION: Workforce Development

COURSE: CSC 2206 CySA+

Date: Fall 2021

Credit Hours: 3

Prerequisite(s): CSC 2204

Delivery Method:		
☒ **Lecture**	**2 Contact Hours (1 contact = 1 credit hour)**
☐ **Seminar**	**0 Contact Hours (1 contact = 1 credit hour)**
☒ **Lab**	**2 Contact Hours (2-3 contact = 1 credit hour)**
☐ **Clinical**	**0 Contact Hours (3 contact = 1 credit hour)**
☒ **Online**	
☐ **Blended**	
☐ **VCM**	

Offered: ☐ **Fall** ☒ **Spring** ☐ **Summer**

CATALOG DESCRIPTION and IAI NUMBER (if applicable):
This course focuses on CompTIA's CySA+ Certification exam. This certification is the next level CompTIA certification to earn after the Security+. CompTIA's Cybersecurity Analyst course will teach you the fundamental principles of using threat and vulnerability analysis tools. CySA+ covers the most up-to-date core security analyst skills and upcoming job skills used by threat intelligence analysts, application security analysts, compliance analysts, incident responders/handlers, and threat hunters. This course is designed to provide you with the foundational knowledge necessary to prepare you to sit for the CySA+ certification exam.

ACCREDITATION STATEMENTS AND COURSE NOTES:
None

COURSE TOPICS AND CONTENT REQUIREMENTS:
1. CySA+ Five Domains
    1. leverage intelligence and threat detection techniques
    2. Analyze and interpret data
    3. Identify and address vulnerabilities
    4. Suggest preventative measures
    5. Effectively respond to and recover from incidents

INSTRUCTIONAL METHODS:
1. CompTIA CertMaster Learn + Lab
2. Readings
3. Videos
4. Quizzes
5. Assessments

EVALUATION OF STUDENT ACHIEVEMENT:
Students must:
1. Participate in class discussions on Live Zoom sessions or demonstrate by work completed the recorded videos of class were reviewed
2. Complete readings, assignments, quizzes, and other assignments given at the instructor's discretion
3. Ask questions about any misunderstood area either in class, during office hours, or of the tutor.

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

INSTRUCTIONAL MATERIALS:
Textbooks
Textbooks used in CySA+ are at the discretion of full-time faculty.
Part-time faculty members are to use the textbook designated for CySA+ by the Program Coordinator for Cybersecurity and the Dean of Workforce Development.

Resources
CertMaster Learn and CertMaster Labs for CySA+

Computer Applications:
1. Online Course Management Software
2. IVCC email account
3. Web Browser:
    a. CompTIA Sites

Other:
1. Audio/video resources

LEARNING OUTCOMES AND GOALS:

Institutional Learning Outcomes

☒ ILO 1: Communication – to communicate effectively;
☒ ILO 2: Inquiry – to apply critical, logical, creative, aesthetic, or quantitative analytical reasoning to formulate a judgement or conclusion;
☐ ILO 3: Social Consciousness – to understand what it means to be a socially conscious person, locally and globally;
☐ ILO 4: Responsibility – to recognize how personal choices affect self and society.

Course Outcomes and Competencies

Outcome 1: Leverage intelligence and threat detection techniques
Competency 1.1: Investigate Threat Data and Intelligence Sources
Competency 1.2: Explain Threat Modeling and Hunting Methodologies

Outcome 2: Analyze and interpret data
Competency 2.1: Analyze monitoring output
Competency 2.2: Analyze log data
Competency 2.3: Effectively Explain and Report the output of data

Outcome 3: Identify and address vulnerabilities
Competency 3.1: Understand and Explain the Risk Management Process
Competency 3.2: Analyze Monitoring output
Competency 3.4: Configure Vulnerability Scanning and Analyze output

Outcome 4: Suggest preventative measures
Competency 4.1: Understand the different Frameworks, Policies and Procedures
Competency 4.2: Understand the Risk Identification, Calculation and Prioritization Process

Outcome 5: Effectively respond to and recover from incidents
Competency 5.1: Effectively understand the Incident Response Process
Competency 5.2: Apply Eradication, Recovery and Post-incident Processes