Merritt College
Applications Security

Overview

College	Merritt - Division II
Originator	Courtney Brown
Award Type	Certificate of Achievement

Codes and Dates

State Approval Date	1/03/2022
Curriculum Committee Approval Date	5/14/2020
Board of Trustees Date	10/13/2020
Current Effective Date	1/03/2022
Program Control Number	33357
Top Code	0702.00* - Computer Information Systems

Description

The Applications Security Certificate of Achievement provides best practices and competencies for students to design, install and implement secure applications and services; manage, and optimize application to ensure compliance with security controls; help prevent, detect, investigate and respond to Applications Security threats and attacks; facilitate Applications Security vulnerability assessments, penetration tests and risk assessments; investigate Applications Security events and incidents, including forensic analysis; represent security interests on project teams by ensuring security standards and requirements; conduct security research, analysis and review of application solutions to ensure compliance with company security policies; evaluate new products and technologies to protect against existing and emerging security threats; and develop and implement information security policies and procedures.

A Certificate of Achievement will be awarded upon satisfactory completion of the certificate requirements specified below.

Career Opportunities
Career opportunities may include Information Security Analysts (SOC 15-1122), Computer and Information Systems Managers (SOC 11-3021), and Computer Systems Analysts (SOC 15-1121).

Program Learning Outcomes
Upon successful completion of this program, students will be able to:

1. Design and secure applications and services to protect critical assets.
2. Develop, test, and implement secure applications to safeguard critical information.
3. Manage ongoing maintenance and updates to applications and services to respond to changing security threats.

Degree Requirements:

Major Core Courses   **Credit Hours:**   (21 Required)

CIS 054	IT Security Goals, Strategy, Policy, and Leadership	3
CIS 055	Hacker Techniques, Exploits, and Incident Handling	3
CIS 056	Secure Coding in Java and .NET	3

CIS 057	Web Application PEN Testing	3
CIS 059	Applications in Information Security	3
CIS 060	Computer Forensics Fundamentals	3
CIS 071	Introduction to Information Systems Security	3

Major Elective Courses List A   **Credit Hours:**   (3 - 5 Required)
Select one course for a minimum of 3 units.

CIS 005	Introduction to Computer Science	5
CIS 006	Introduction to Computer Programming	5
CIS 007	Control Structures and Objects	4
CS 020	Python Application Programming	3

Major Elective Courses List B   **Credit Hours:**   (3 - 4 Required)
Select one course for a minimum of 3 units.

CIS 051	Introduction to Information Technology Project Management	4
CIS 098	Database Programming with SQL	4
CIS 178	Build Automation for DevOps and QA	4
CIS 221	Cyber Safety, Online Identity, and Computer Literacy	1 - 3
CIS 247	Information Systems Skills Challenge	1 - 4
COPED 469	Occupational Work Experience in Security Administration	1 - 4

Total: 27.000 - 30.000

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