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CSTP 2303: Computer System Security Threats and Solutions

EFFECTIVE DATE

September 2019

DEPARTMENT

Computer Systems Tech Diploma

DESCRIPTION

In this course students will learn various attack and defense methodologies. While exploring current and emerging security topics students will learn how computer security affects businesses and business data. Students will be introduced to the protection of an organization's assets, intellectual property and employees as well as methods for maintaining business continuity. Students will also examine methods to maintain the integrity of an organization's network infrastructure and day-to-day operations.

CREDITS

3.0

YEAR OF STUDY

2nd Year Post-secondary

PREREQUISITES

CSTP 2106 Introduction to Computer Security CSTP 2202 Network Server Administration

COREQUISITES

None

COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Evaluate Ethical Hacking
- Apply the techniques of Information Gathering
- Analyze attack and defence methodologies
- Demonstrate mobile and wireless security
- Demonstrate Internet of Things security
- Discuss Cloud security
- Investigate Social Engineering and corporate espionage prevention
- Examine Cyber Warfare and advanced topics

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 25

Lab: 35

INSTRUCTIONAL STRATEGIES

Instructional strategies include classroom lectures, demonstrations, group discussions, computer lab and hands-on practical work.

GRADING SYSTEM

Letter Grade (A-F)

PASSING GRADE

C

EVALUATION PLAN

Type	Percentage	Assessment activity
Assignments	30	2 assignments worth 15% each
Quizzes/Tests	20	2 quizzes worth 10% each
Project	25	
Final Exam	25	

COURSE TOPICS

- Ethical Hacking

- The techniques of information gathering
- Defence methodologies
- Mobile and wireless security
- Internet of Things security
- Cloud security
- Cyber Warfare

LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

Broadway campus

1155 East Broadway
Vancouver, B.C. Canada
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Downtown campus

250 West Pender Street
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Annacis Island campus

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