CONESTOGA

COURSE OUTLINE

Course Computer Security (2014-2015)

Code / Version INFO1340 (100)

Total Hours 45

Credits 3

PreRequisite(s)

CoRequisite(s)

Course Description

This course covers the practical and ethical aspects of modern computer security. A wide variety of topics will be covered. An emphasis will be placed on examining and analyzing common application security issues. The legal and ethical aspects of computer security and privacy will also be examined.

PLAR Eligible: Yes

Course Outcomes

Successful completion of this course will enable the student to:

1. Discuss network security issues.
2. Review application security issues.
3. Describe fallacies of computer security.
4. Explain real-life examples of security and privacy issues.
5. Discuss the need for management of security risk level.
6. Review techniques for secure software design and implementation.
7. Describe common technologies used to improve software security.
8. Examine common current-day security issues through the use of current media.

Unit Outcomes

Successful completion of the following units will enable the student to:

1.0   Basics of Computer Security

    1.1   Review the need for computer security.

    1.2   Discuss designing for security.

    1.3   Review testing for security.

    1.4   Explain fallacies of computer security.

2.0   Managing Security Risk

    2.1   Review the role of personnel in assessing and implementing security.

    2.2   Explain the various costs of improving or not improving security.

    2.3   Discuss the need to manage security risk.

3.0   Network Security

    3.1   Identify network security issues.

4.0   Application Security

    4.1   Discuss application security issues.

    4.2   Identify insecure application code.

5.0   Social Engineering

   5.1   Define Social Engineering.

   5.2   Describe common Social Engineering attacks.

6.0   Privacy

   6.1   Discuss the pervasive nature of online personal information.

   6.2   Synthesize new information through aggregating publically-available information sources.

7.0   Common Security Attacks

   7.1   Describe common security attacks and how to prevent them.

8.0   Current Technologies

   8.1   Review current technologies used to improve software security.

   8.2   Distinguish current issues in computer security.

9.0   Current Issues

   9.1   Describe current issues found on online security-related blogs and websites.

Required Student Resources

Optional Student Resources

Evaluation

The minimum passing grade for this course is 55 (D).

In order to successfully complete this course, the student is required to meet the following evaluation criteria:

Final Exam	35.00
Assignments	25.00
Presentations	30.00
Discussions	10.00
	100.00 %

Other

Conestoga College is committed to providing academic accommodations for students with documented disabilities. Please contact the Accessibility Services Office.

Prepared By   Carlo Sgro

School   Information Technology

Date   2014-11-24

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