**COMPUTER SECURITY AWARENESS**

# NET 180- Section: 001

Online

**Credit Hours:** 2.00 **Lab Hours:** 0.00 **Lecture** 2.00

# IAI Core: IAI Majors:

**Semester: Fall 2014 Course Begins: 10/15/2014 Course Ends: 12/11/2014 Days: Online Times: Online Room: Online**

**Instructor:** Mujeye, Stephen **E-mail:** [smujeye@mchenry.edu](mailto:smujeye@mchenry.edu) **Phone:** 815-455-8544

# Office hours:

**Office location:** A124

**Other contact information** 269-369-9934

# Required Course:

**Textbook(s):** *Cyber SafetyEc-Council,(2010). Course Technology.*

**ISBN:** *1435483715*

# Course Description:

Computer Security Awareness provides students with practical skills for protecting their computer systems from the increasingly sophisticated attacks that make many home computers vulnerable. These attacks include viruses, worms and Trojan horses. Students also learn about spyware and adware, as well as how to install and configure anti-virus, firewall and spyware removal software. This course may be repeated twice due to changing technology.

# Course Prerequisite: CDM 110. Section Notes:

**Course Objectives:**

Upon completion of this course, the student will be able to:

1. Define physical security and how to apply it.
2. Define security and list the 3 basic goals of security.
3. Explain how to be prepared for a security attack.
4. Explain how WLAN functions and identify some of its weaknesses.
5. Explain the importance of information security.
6. Explain why risk assessment and user responsibilities are part of security policy.
7. Identify risks associated with using the Web and describe the preventative measures used to minimize Web attacks.
8. Identify vulnerabilities associated with e-mail and the technologies that can be used to protect e-mail.

9. List and describe 3 types of network attacks.

1. List the categories of individuals who break into computers.
2. List the parts of a business continuity plan.
3. List the steps that are important for keeping alert to security attacks.
4. Identify the different types of data security.
5. Demonstrate proficiency in identifying attackers and specifying their method of attack.
6. Discuss some of the challenges of making a computer secure.
7. Generate a list of good practices that a Human Resources Department should follow to improve

information security.

1. Configure operating system security.
2. Demonstrate the knowledge on how to safeguard a system.

19. Give an overview of how networks work.

20.Illustrate how network defenses can be used to enhance network security perimeters.

21. Label ways an organization and a user can resist security attacks.

# Course Outline:

1. Introduction to Security
   1. What is Information Security?
   2. Why Information Security Is Important
   3. Attacker Profiles
   4. How Attackers Attack
   5. Safeguarding a System
   6. Information Security: The Big Picture
2. Personal Computer Security
   1. Physical Security
   2. Data Security
   3. Operating System Security
3. Organizational Security
   1. Security Policy
   2. Human Resource Procedures
   3. Business Continuity Plan
4. Internet Security
   1. The World Wide Web
   2. Web Security through Browser Settings
   3. E-Mail
5. Network Security
   1. How Networks Work
   2. Network Attacks
   3. Network Defenses
   4. Wireless Networks
6. Total Security
   1. The Security Challenge
   2. Prepare for Attacks
   3. Keep Alert
   4. Resist Attack

# Assignments and Grading Criteria

**METHOD(S) OF EVALUATION:**

|  |  |  |
| --- | --- | --- |
| **CATEGORY** | **DESCRIPTION** | **TOTAL %** |
| **Labs/Projects** | **8 Projects** | **25%** |
| **Blogs** | **8 Blogs** | **10%** |

|  |  |  |
| --- | --- | --- |
| **Online Quizzes** | **8 Quizzes** | **25%** |
| **Fina Exam** | **1 Exam** | **40%** |
| **Total** |  | **100%** |
|  |  |  |

# Grading Scale

90% - 100% A

80% - 89% B

70% - 79% C

60% - 69% D

Below 60% F

# Policies

**Late work/make-up policy:**

* Students are responsible for making up any missed work or material due to absences **prior** to the next class session.
* Assignments must be turned in on time, otherwise a grade a zero will be earned. Anything submitted after the assignments are due is considered late.
* If proper communication was received in advance of the due date, homework and labs will still be accepted with a penalty of 15% per day late.
* No revisions on final submissions of lab work.
* Absolutely no work will be accepted past the last day of classes.

# Weekly Course Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Readings** | **Assignments / Assessments** | **Due Dates** |
| **1**  **10/15/14** | Canvas [https://mchenry.instructur](https://mchenry.instructure.com/) [e.com/](https://mchenry.instructure.com/)  Chapters 1- Foundations of Security | Introductions Chapter 1 Quiz  Chapter 1 Blog  Chapter 1 Review Questions | Due Tuesday 10/21 at 11:59pm, cst |
| **2**  **10/22/14** | Chapters 2- Basic Security Procedures | Chapter 2 Quiz  Chapter 2 Blog  Project 2 | Due Tuesday 10/28 at 11:59pm, cst |
| **3**  **10/29/14** | Chapters 3 – Desktop Security | Chapter 3 Quiz  Chapter 3 Blog  Projects 3 | Due Tuesday 11/04 at 11:59pm, cst |
| **4**  **11/05/14** | Chapters 4 – Administering Windows Securely | Chapter 4 Quiz  Chapter 4 Blog  Projects 4 | Due Tuesday 11/12 at 11:59pm, cst |
| **5**  **11/13/14** | Chapters 5 – Security Threats and Attacks | Chapter 5 Quiz  Chapter 5 Blog  Projects 5 | Due Tuesday 11/19 at 11:59pm, cst |
| **6**  **11/20/14** | Chapters 6 – Incident Response | Chapter 6 Quiz  Chapter 6 Blog  Projects 6 | Due Tuesday 11/26 at 11:59pm, cst |

|  |  |  |  |
| --- | --- | --- | --- |
| **7**  **11/27/14** | Chapters 7 – Secure Internet Access | Chapter 7 Quiz  Chapter 7 Blog  Projects 6 | Due Tuesday 12/03 at 11:59pm, cst |
| **8**  **12/04/14** | Chapter 8 – Working on the Internet | Chapter 8 Quiz  Chapter 8 Blog  Projects 8 | Due Tuesday 12/10 at 11:59pm, cst |
| **9**  **12/10/14** | Final Exam | Final Exam | Due Tuesday 12/11 at 5pm, cst |

**Withdrawals:** The last day to drop this course is 11**/27/2014.** Failure to attend class does not constitute official withdrawal. If students are considering a withdrawal, they should consult directly with the instructor and an academic advisor. Students may withdraw from a class through the Registration Office, either in person or by fax: (815) 455-3766. In their request, students should include their name, student ID number, course prefix, number and section, course title, instructor, reason for withdrawing, and their signature. Withdrawal from a course will not be accepted over the telephone.

Please refer to the following link for other important college dates: [www.mchenry.edu/academiccalendar.asp](http://www.mchenry.edu/academiccalendar.asp)

# Special Needs Statement

McHenry County College offers support services for students with special needs. It is your responsibility to meet with the Special Needs Coordinator and provide current documentation regarding a disability. Please call or stop by the Special Needs Department, (815) 455-8676, Room A260, as soon as possible if you would like more information about the accommodations that are available. In addition, it is important for you to discuss those accommodations with your instructor so you are fully able to participate in this course.

# Academic Integrity

As an educational community, McHenry County College values the pursuit of academic excellence and integrity. In accordance with this philosophy and Chapter 10, Act 5 of the 1994 Illinois Community College Act, academic dishonesty in any form, including cheating, plagiarism, and all other acts of academic theft, is considered intolerable. Appropriate sanctions, up to and including suspension from the College will be imposed by authorized College personnel.

# Copyright Policy

MCC will maintain current procedures and guidelines to ensure that all staff and students comply with applicable copyright laws and other intellectual property protection laws. The College will encourage staff and students to engage in the development of intellectual property and facilitate ownership protections with respect to such development of intellectual property.

The College expects that staff and students will act responsibly and ethically in a manner consistent with all copyright laws and College copyright procedures and guidelines. This policy authorizes the College to adopt and maintain such procedures and guidelines necessary to ensure compliance with copyright laws and to facilitate ownership protection with respect to the development of intellectual property.

# Student Code of Conduct and the Judicial Process

Consistent with the MCC mission is an expectation that students will govern themselves in terms of appropriate behavior with emphasis on self-respect and respect for others. It is the practice of the College to respect the properly exercised rights of its students. The College recognizes a student’s rights within the institution to freedom of speech, inquiry and assembly; to the peaceful pursuit of education; and to the reasonable use of services and facilities at MCC.

MCC has adopted a Student Code of Conduct and judicial process to maintain a learning environment of respect, civility, safety, and integrity for all members of the MCC community.

Whenever possible, sanctions for violations of the Student Code of Conduct may be educational in nature. However, violations affecting the health and safety of members of the MCC community are deemed to be the most serious. Therefore, acts of violence, threats or dangerous behavior are most likely to result in a suspension from the College. Violations of the academic dishonesty policy may also result in suspension or expulsion from the institution and/or reduced or failing grade.

# Children on Campus

For the safety of children on campus, children (i.e., less than 16 years of age) are not permitted on campus unattended by a parent/guardian, except when they are attending classes offered by MCC for children. The College requires that no children be allowed into a classroom/laboratory environment, including the Testing Center, Learning Center and computer labs, solely for the purpose of a parent/guardian to provide direct supervision of his/her child.

# Teaching Schedule

The scheduling of the activities and teaching strategies on this syllabus, but not the objectives or content, may be altered at any time at the discretion of the instructor.

# Resources

The following are useful resources available to you as a student at McHenry County College:

**Advising and Transfer Center: Phone (815) 479-7565; Office A257** [www.mchenry.edu/ATC/Index.asp](http://www.mchenry.edu/ATC/Index.asp)

# Counseling:

**Phone (815) 455-8765; Office A257**

[www.mchenry.edu/counseling](http://www.mchenry.edu/counseling)

# Financial Aid:

**Phone (815) 455-8761; Office A262**

[www.mchenry.edu/financialaid](http://www.mchenry.edu/financialaid)

# Library:

This workforce solution was funded by a grant awarded by the U.S. Department of Labor’s Employment and Training Administration. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timelines, usefulness, adequacy, continued availability, or ownership. This solution is copyrighted by the institution that created it. Internal use, by an organization and/or personal use by an individual for non-commercial purposes, is permissible. All other uses require the prior authorization of the copyright holder.

**Phone (815) 455-8533; Office A212**

[www.mchenry.edu/library](http://www.mchenry.edu/library)

# Special Needs:

**Phone (815) 455-8676; Office A260**

[www.mchenry.edu/specialneeds](http://www.mchenry.edu/specialneeds)

# Tutoring and Study Skills (Sage Learning Center):

**Phone (815) 455-8579; Office A247**

[www.mchenry.edu/sage](http://www.mchenry.edu/sage)