

**MAYLAND COMMUNITY COLLEGE  
Welcomes You To:**

**SEC110/20 Security Concepts  
Contact hrs = 3 Credit hrs = 3**

**Course Description**

This course introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls. Topics include the historical view of networking and security, security issues, trends, security resources, and the role of policy, people, and processes in information security policy, and identifying processes to implement and enforce policy.

Prerequisites: CIS110 or CIS111 Corequisites: None

**Instructor Information**

**Instructor:** Ed Young  
**Office Location:** P216  
**Telephone Number:** 765 7351 ext. 332  
**E-mail Address:** reyoung@cc.mayland.edu  
**Office Hours:** M & W 8:30 am to 9:00 am, 1:30 pm to 3:00 pm,  
T & Th 8:30 am to 9:00 am, 1:30 pm to 2:00 pm, and 5:00 pm to 6:00 pm

**Course Information**

**Meeting Times** 6:00 pm until 8:50 pm TTh in P219

**Required Text(s):** *Security Plus Guide to Network Security Fundamentals 2<sup>nd</sup> Ed*, Ciampa,  
Course Technology ISBN 0-619-21566-6

**Required supplies:** None

**Course Objectives/Competencies:**

1. What are the best practices in securing a Windows PC?
2. What are the best practices in securing a typical home PC?
3. How can you secure remote access over the Internet?
4. What type of attacks use email?
5. Understand basic web vulnerabilities.
6. Be able to setup basic antivirus software.
8. Be able to implement wireless security in a wireless access point or router.
9. Be able to set up Windows security based on SP2.
10. Understand the concepts of a DMZ.
11. Be able to find information on malware on the Internet.
12. What are viruses, spyware, Trojans, and worms?
13. What are typical policies in business/institutions that relate to security.

**Attendance Policy/Tardiness/Make-Up Work:**

You are expected to attend class. To do well in this class you will not only have to attend class but make sure you complete all your exercises. If you need to withdraw, be sure you do so officially by filling out a drop form. If you just stop coming to class without withdrawing, your final grade will be an F.

If a student has not been in contact with the instructor and has not attended class for a consecutive two-week period, an administrative withdrawal will be submitted by the instructor. If you are administratively dropped, you will not be able to re-enter the class spring semester

**Grading Criteria/Tests/Projects:**

There will be three quizzes, exercises, and a final exam. Quizzes will be scheduled at least a week in advance. If you miss a scheduled quiz, be ready to take the make-up upon your first return to class unless you have made other arrangements. Without prior arrangements, make-up quizzes are short answer instead of multiple choice. If you know you cannot take a quiz at the scheduled time, let your instructor know in advance. The final will be comprehensive. You will have both hands-on exercises you can complete in the computer lab and other exercises to be completed and turned in. Exercises will have a due date and will be scored. You will not receive the maximum score if your work is turned in after the due date. Exercises more than 3 meetings overdue will not be accepted and graded as zero.

At the end of the semester, the three quiz scores, the final and the exercise grade will be averaged. Each counts equally toward your grade. The grading scale below will determine your final grade. If your final average at the end of the quarter is between grades, such as 84.3, then your attendance will determine whether you get the higher grade. If you have two absences or less, you get the higher grade. If you have over two absences for any reason, your grade remains the same.

**Grading Scale:**

**A = 93-100**  
**B = 85-92**  
**C = 77-84**  
**D = 70-76**  
**F = below 70**

**Inclement Weather Procedures:** Check local radio/TV for class cancellation due to weather.

**Academic Standards/Student Expectations/Ethics:** You are expected to do your own work. Turning in someone else's work as your own or cheating on a quiz can lead to your expulsion from class.

**Withdrawal Dates:** Summer 2007

End of Unconditional Withdrawal	Thursday, June 21
End of Conditional Withdrawal	Monday, July 16

**Student Accommodations:** Any student requesting special accommodations for this course due to a disability should apply for services through the SOAR Office or the Counseling Center, which will document the disability. A counselor will then help determine which accommodations, if any, the student needs for success in this course.

**LEO** Your exercise scores and quiz scores will be posted on LEO. If you see a score that differs from the work returned to you, please let me know. If you have turned in work and the score is not posted on LEO after a week, please let me know. Remember, LEO is not my official grade book. Your grades are kept on an Excel spreadsheet. If you want to know your current average, just let me know.

**SEC110 Security Concepts Summer 07 TTh Evening**

<b>Tuesday</b>	<b>Thursday</b>
<b>June 5</b> Intro to Class Chapter 1 Security Fundamentals Chpt 1 Security Fundamentals	<b>June 7</b> Chpt 2 Attackers & Their Attacks
<b>June 12</b> Chpt 3 Security Basics	<b>June 14</b> Chpt 4 Security Baselines
<b>June 19</b> Quiz #1 Chpt 5 Network Infrastructure	<b>June 21</b> Chpt 5 Network Infrastructure Chpt 6 Web Security
<b>June 26</b> Chpt 6 Web Security Chpt 7 Advanced Communications	<b>June 28</b> Chpt 7 Advanced Communications Chpt 8 Cryptography
<b>July 3</b> <b>No Class 4th of July week</b>	<b>July 5</b> <b>No Class 4th of July week</b>
<b>July 10</b> Chpt 8 Cryptography	<b>July 12</b> Quiz #2 Chpt 9 Using and Managing Keys
<b>July 17</b> Chpt 9 Using and Managing Keys Chpt 10 Operational Security	<b>July 19</b> Chpt 10 Operational Security Chpt 11 Policies and Procedures
<b>July 24</b> Chpt 11 Policies and Procedures Chpt 12 Security Management	<b>July 26</b> Quiz #3 Info on Final Exam
<b>July 31</b> Chpt 13 Advanced Security and Beyond	<b>August 2</b> Final Exam