**GATEWAY COMMUNITY COLLEGE**

**COURSE SYLLABUS**

**COURSE TITLE: Security Management Practices**

January 19th, 2017 – May 15th , 2017

**Thursday’s in Classroom**

5:25 to 6:45 PM ***Room S312***

## Instructor: Robert E. Jasek Spring 2017

Office: Room S312

Blackboard & Classroom: E-mail: [rjasek@gwcc.commnet.edu](mailto:rjasek@gwcc.commnet.edu)

Text: Computer Security Fundamentals by **Chuck Easttom (2nd Edition)**

Publisher:  Prentice Hall; (2016) - :ISBN-13: 978-0789748904 SBN-10: 0789748908

COURSE DESCRIPTION: Security Management Practices entails the identification of an organization’s information assets and the development, documentation, and implementation of policies, standards, procedures, and guidelines that ensure confidentiality, integrity, and availability. This course will prepare the student in understanding the planning, organization, and roles of individuals involved in security, develop security polices, and utilize management tools used to identify threats, classify assets, and rate vulnerabilities.

**COURSE OBJECTIVES:**

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

**Major Objectives of this course are:**

* + To understand basic computer security techniques
  + To understand how computer systems are attacked and defended
  + To allow students to do research into an area of security that interests them.

**After successful completion of this course the student will:**

* Understand basic computer security concepts
* Recognize security vulnerabilities
* Know the basics of communications security
* Learn about infrastructure security
* Understand the basics of cryptography
* Be familiar with the challenges of organizational security
* Be able to select appropriate security policies and procedures

**TENTATIVE COURSE SCHEDULE**

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| **WEEK** | **TOPICS & READING** | **Chapters and PowerPoint Review** | **HOMEWORK**  **ASSIGNMENTS (HW)** | **TEST** |
| Week 1 | Course Introduction | Review course goals and objectives. | 1. Read Chapter 1 |  |
| Week 2 | Chapter 1.  *Introduction to Computer Security* | 1. Read Chapter 1 2. Review PowerPoint Slides   Review End of Chapter Questions | 1. Answer the discussion board question and respond to one other student’s posting. 2. Answer weekly short answer question |  |
| Week 3 | Chapter 2  *Networks and the Internet* | 1. Read chapter 2 2. Review PowerPoint slides 3. Review End of Chapter Questions | 1. Answer the discussion board question and respond to one other student’s posting. 2. Answer weekly short answer question |  |
| Week 4 | Chapter 3  *Cyber Stalking, Fraud, and Abuse* | 1. Read chapter 3 2. Review PowerPoint Slides   Review End of Chapter Questions | 1. Answer the discussion board question and respond to one other student’s posting. 2. Answer weekly short answer question |  |
| Week 5 | Chapter 4  *Denial Of Service Attacks* | 1. Read Chapter 4 2. Review PowerPoint Slides 3. Review End of Chapter Questions | 1. Answer the discussion board question and respond to one other student’s posting. 2. Answer weekly short answer question |  |
| Week 6 | Chapter 5  *Malware* | 1. Read chapter 5   Review for Mid Term Exam (email any questions about the mid term) | 1. Answer the discussion board question and respond to one other student’s posting. 2. Answer weekly short answer question |  |
| Week 7 | **Test** | 1. **Mid Term Exam** 2. Submit any late assignments | 1. **Mid Term Exam** 2. Submit any late assignments | **Mid – Term** Chapters  1 - 5 |
| Week 8 | Chapter 6  *Techniques Used by Hackers* | 1. Read chapter 6 2. Review PowerPoint Slides 3. Review End of Chapter Questions | 1. Answer the discussion board question and respond to one other student’s posting. 2. Answer weekly short answer question |  |
| Week 9 | Chapter 7  *Industrial Espionage in Cyberspace* | 1. Read chapter 7 2. Review PowerPoint Slides 3. Review End of Chapter Questions | 1. Answer the discussion board question and respond to one other student’s posting.   Answer weekly short answer question |  |
| Week 10 | Chapter 8  *Encryption* | 1. Read chapter 8 2. Review PowerPoint Slides   Review End of Chapter Questions | 1. Answer the discussion board question and respond to one other student’s posting.   Answer weekly short answer question |  |
| Week 11 | Chapter 9  *Computer Security Software* | 1. Read chapter 9 2. Review PowerPoint Slides   Review End of Chapter Questions Slides | 1. Answer the discussion board question and respond to one other student’s posting. 2. Answer weekly short answer question |  |
| Week 12 | Chapter 10  Cyber Terrorism and Information Warfare | 1. Read chapter 10 2. Review PowerPoint Slides 3. Review End of Chapter Questions Slides | 1. Answer the discussion board question and respond to one other student’s posting. 2. Answer weekly short answer question |  |
| Week 13 | Chapter 11  Cyber Detective | 1. Read chapter 11 2. Review PowerPoint Slides 3. Review End of Chapter Questions Slides | 1. Answer the discussion board question and respond to one other student’s posting. 2. Answer weekly short answer question |  |
| Week 14 | Chapter 12  Computer Security Hardware and Software | 1. Read chapter 12 2. Review PowerPoint Slides 3. Review End of Chapter Questions Slides | 1. Answer the discussion board question and respond to one other student’s posting. 2. Answer weekly short answer question |  |
| Week 15 | Chapter 13  *Cyber Detective* | 1. Read chapter 13 2. Review PowerPoint Slides 3. Review End of Chapter Questions Slides | 1. Answer the discussion board question and respond to one other student’s posting. 2. Answer weekly short answer question |  |
| Week 16 | Chapter 14  *Introduction to Forensics* | 1. Read chapter 14 2. Review PowerPoint Slides 3. Review End of Chapter Questions Slides | 1. Answer the discussion board question and respond to one other student’s posting. 2. Answer weekly short answer question |  |
| Week 17 | Final Exam | **Final Exam** | **Final Exam** | Chapters  1 -14 |

**CLASS POLICIES:**

1. You should check Blackboard Vista online each day for additional homework assignments and communications. **Updates and assignments will be posted on Monday and the assignments are due no later than Friday of the same week.**

1. Students are expected to do all of the “end of chapter questions” in each chapter. These questions provide additional information to help give the students a better understanding of the chapter’s key concepts in each chapter.
2. **Quizzes may be given occasionally** based on reading and homework assignments. They will be delivered online and at the instructors discretion.
3. You are responsible for all course work missed. This includes notes, announcements, reading assignments, and homework. All assignments must be handed in on time.
4. In the event you miss an assignment you must submit it before the next scheduled assignment is due or your assignment’s grade will be affected.
5. If a test is not submitted by the due date your grade will be affected unless other arrangements have been made with the instructor.
6. Make sure to put your name in the title bar of each assignment you submit. **Please ensure all work is properly cited.** Although this is not an English class you are expect to convey your thoughts and ideas in a coherence and logical manner.

# GRADING POLICIES

Tests 30%

Message Board Postings 40%

Quizzes 10% (One quiz may be dropped)

Homework/Video Assignments/ 20%

Any student who feels s/he may need special accommodations based on the impact of a documented disability, please contact the office of Student Disability Services at 203-285-2231 in room S-202 to coordinate reasonable accommodations.  Students then should contact the professor privately to discuss specific needs.