Computer Security Administration & Policy
Course Syllabus – Fall 2015

Course Information

Instructor: Dr. Mike Jochen  
Phone: 570.422.3036  
Email: mjochen@esu.edu  
Office: 337 SCITECH Building  
Office Hours: Mon/Weds 5:30 – 7:00 p.m.  
Tues/Thurs 11 a.m. – 12:00 p.m.  
& by appointment

Course Number: CPSC 475  
Section: 94048  
Class Time/Place: Tues/Thurs 12:00 – 1:40 p.m.  
352 SCITECH  
Semester Hours: 4

Prerequisites

• CPSC 130 – Introduction to Computer Programming 1  
• CPSC 131 – Introduction to Computer Programming 2  
• CPSC 230 – Programming Principles & Practice  
• CPSC 270 – Computer Security, I

Course Overview

This course gives students a broad overview of the administration of computing systems with an emphasis on the security of the systems. Students will study computer security law and ethics, the development of an organizational computer security program, computer security policy development, computer security planning, contingency planning, risk management, and the certification and accreditation of computing systems.

Course Objectives

By the end of the semester, you will be able to:

• Describe how risk relates to a system security policy  
• Describe various risk analysis methodologies  
• Describe different types of attacks and their characteristics  
• Describe appropriate measures to be taken, should a system compromise occur  
• Describe the DoD system certification and accreditation processes  
• Describe your responsibilities related to the handling of information about vulnerabilities  
• Describe how the type of legal dispute (civil, criminal, private) affects the evidence used to resolve it  
• Identify the bad actors in cyberspace and conduct a threat assessment of those bad actors  
• Identify significant vulnerabilities, risks, and points at which specific security technologies/methods should be employed, after examining the a typically, complex system  
• Evaluate, categorize, and recommend appropriate responses for risk 1) with respect to technology; 2) with respect to individuals, and 3) in the enterprise  
• Compare the advantages and disadvantages of various risk assessment methodologies
• Select the optimal risk assessment methodology, based on needs, advantages, and disadvantages
• Define certification and accreditation
• List the applicable laws and policies related to cyber defense and describe the major components of each, pertaining to the storage and transmission of data
• Demonstrate the most important ethical and legal issues with regard to computer security solutions
• Enhance technical writing skills by analyzing case studies in writing
• Enhance speaking skills by analyzing case studies in class

Resources
• No Textbook: Readings will come from selected legal case studies, statues, regulations, and standards
• Selected readings from various sources as assigned
• Online Course management System: https://esu.desire2learn.com/

Requirements
Throughout the semester you will complete the following:
• Quizzes
• Individual/Group assignments of varying size and complexity
• Written case study analysis
• Oral discussion / argument of case study positions in class
• Oral Presentation of your C&A package/recommendation
• Final Exam

Grading
All work is due at the time and day specified when the assignment is given. Submission details for work to be graded will be given at the time the work is assigned. If you want me to reconsider your grade on a particular assignment, you must make your request within seven days of my handing out the graded work.

Quizzes will be given throughout the semester. I will automatically drop your one, lowest quiz score (one score only) when calculating your final grade.

If you are absent the day any in-class work is given (e.g., an case study argument or quiz), you will receive a grade of zero for that work. If you know you must miss a class, please speak with me ahead of time so that we can try to make a mutually beneficial arrangement. Some examples of situations that may permit a make-up would be: extreme illness, death in the family, court dates, etc. Some examples that will not get you a make-up are: minor illness, sporting events, concerts, routine doctor visits, social events, oversleeping, etc.

I do not give separate make-up assignments. If I authorize a make-up for a case study or quiz, the make-up will consist of the next case study or next quiz grade counting twice (once for the make-up grade, and once for the next case study, or next quiz grade).

Rather than grading on a competitive, curve-based grading scheme, I use a criterion-based grade scale. Thus, if every student works sufficiently hard, and earns a letter grade of “A”, then all students will receive “A”s. Your grade reflects the amount and quality of work that you, the student, accomplish during the semester. To that end, I do not assign your grade, you earn your grade.

This means, to receive an “A”, you must perform excellent work. Excellent work is that work which is marked with distinction, going above and beyond that of merely meeting the requirements for an assignment. Your final grades will be decided based on the following scale:
Your final grade is composed of the following work and weights:

- 10% Quizzes
- 30% Class Attendance/Participation
- 30% Assignments
- 30% Final Exam

### Class Attendance and Participation Policies

Class attendance is required. As such, attendance will be taken each class. If you are absent for four or more unexcused absences, you will receive a final grade of E (failure) for the class (regardless of your average). I expect you to participate constructively in each class. When you fail to come to class, not only do you miss out on the material for the day, but you disadvantage your fellow students as your unique perspective is absent from class discussion and problem sessions. **Please note:** to be considered “present”, you must be present for the **entire class period.** If you arrive late, or leave early, you **risk being marked absent for the day** (unless prior arrangement has been made with the instructor).

### Tentative Class Schedule

The following is a tentative schedule for the course. Readings are to be completed by the date indicated on the calendar. Homework assignments will be announced in class. Quizzes may be announced and/or unannounced (“pop”). An updated version of this schedule will always be available on the class course management site.

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<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Activity</th>
<th>Reading</th>
<th>Note</th>
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<td>800-18, 800-59, 800-60</td>
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Assignment Lateness Policy

I strongly encourage you to keep up with the pace of the class. You risk putting yourself at a distinct disadvantage for learning when you get into the habit of submitting work after the due date. However, I do recognize that unforeseen events happen in life and I will accept late assignments with the following provisions: For each day late (n being the number of days late), you lose $2^n$ percentage points on your assignment. For example, if you turn in an assignment one day late, you will lose $2^1$ or 2%, two days late will cost $2^2$ or 4%, three days late will cost $2^3$ or 8%. In essence, the penalty for lateness doubles each day. Late assignments are not accepted after the sixth late day. Weekends and holidays count as late days.

Academic Honesty Policy

All work submitted is to be completed individually (unless indicated as a group assignment), and is to be the sole product of your own efforts. Group work is to be the sole product of members of the group. Any perception of anything to the contrary or that violates the spirit of the Student Code of Conduct will be handled accordingly. This policy provides a range of very unpleasant possible outcomes, should a violation be suspected. I encourage you to become familiar with this policy. Please refer to the relevant sections of the Student Code of Conduct from the Student Handbook for more information.

Special Needs

If you need special accommodations or require additional assistance to fully participate and be successful in this class, I encourage you to contact me as soon as possible. I strongly desire each and every one of my students to be able to achieve their goals in this class. I will work with you and the Office of Disability Services to ensure that you have every opportunity to do well.

Safe Learning Environment

East Stroudsburg University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment and to comply with Title IX of the Education Amendments of 1972, the University requires faculty members to report incidents of sexual violence shared by students to the University’s Title IX Coordinator. The only exceptions to the faculty member’s reporting obligation are when incidents of sexual violence are communicated by a student during a classroom discussion, in a writing assignment for a class, or as part of a University-approved research project. Faculty members are obligated to report sexual violence or any other abuse of a student who was, or is, a child (a person under 18 years of age) when the abuse allegedly occurred to the person designated in the University protection of minors policy. Information regarding the reporting of sexual violence and the resources that are available to victims of sexual violence is set forth at: [http://www4.esu.edu/titleix/]
By signing below, I indicate that I have read and understand all policies and provisions described in this syllabus. I further indicate that I have familiarized myself with the Student Code of Conduct and that I will abide by this code.

_________________________________________  ______________________________________
Printed Name                                      Date

_________________________________________
Signature