Course Policy

Instructors

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Course Description

This course introduces the technologies of our interconnected world and how they work together, and goes into detail on how to detect network and host intrusions and events. Students will build their own web server through which they will study methods for detecting events and processing the large amounts of associated data. Primary Topics include how large networks are connected, virtualization, detecting attacks both network and system, the importance of data management and risk management.

Learning Objectives

Upon completing this course, students should be able to:

1. Access, manipulate, and understand data to aid in effective strategic decision-making.

2. Be able to detect possible threats, determine the risk associated with the threat, and understand what actions can be taken to mitigate the threat.

3. Have a sound understanding of the technologies and methods utilized to defend systems and networks. Describe, evaluate, and operate a defensive network architecture employing multiple layers of protection using appropriate technologies.

ABET Program Objectives
d. An ability to function effectively on teams to accomplish a common goal.
f. An ability to communicate effectively with a range of audiences.
h. Recognition of the need for and an ability to engage in continuing professional development.

Textbooks

All lessons will be provided on the calendar, this course has no required textbooks.

Extra Instruction (EI)

EI is available and encouraged. Since this course continually builds upon material previously presented, it is crucial that you seek EI as soon as you have problems understanding the material. However, you must come prepared with specific questions or areas to be discussed (i.e. have read any assigned readings).

Grading

	6wk	12wk	Final
Labs & HW & Quizzes	50%	50%	40%
Exams (Averaged)	30%	30%	20%
Capstone: Milestone Attainment & Peer Evals	20%	20%	
Capstone: Final Report & Customer Grade & Presentation & Peer Evals			40%

Cyber Majors will participate in the Academy-wide capstone presentation day on **April 22nd**. Students are expected to answer questions from other students and instructors.

Capstone

There will be a culminating capstone project for the major that is **tracked by** this class. The capstone must be completed entirely by the students making the submission. The capstone grade will be based upon the instructor's estimation of the group's collective results, **adjusted for each team member based upon the other group members' estimation of the individual's teamwork and contribution.**

Exams

All exams should be considered to be **comprehensive**, but a majority of the material will come from the recent portions of the course. If for some reason a make-up exam will be required, inform the instructor at least 1 week in advance. All exams will be closed books, closed notes. Students will be allowed to bring individually prepared, hand-written, letter-size "study sheets" with anything written on them (1 sheet for the 6-week exam, 2 sheets for the 12-week exam, 3 for the final - can be front and back side of the paper). **Study sheets will be collected at the exam and will not be returned.** Use of any electronic devices outside of your laptop is not permitted during the exams.

Quizzes

Be prepared. Quizzes or Homework may occur randomly throughout the semester and will be open or closed book/notes, as announced.

Late Assignments

Unless otherwise specified, all lab assignments are due at 2359 on the day preceding the next lab. (Example if you have labs on Wednesday, the lab will be due the following Tuesday at 2359). **Late assignments will graded down based on date of submission Multiple missing assignments is grounds for significant grade reductions in this course. Anyone missing 3 assignments can not achieve a grade higher than a B in the course, someone missing 4 assignments can not achieve a grade higher than a C, 5 ore more assignments the highest grade possible will be a D.**

Missing Assignments (Labs)	Best Possible Grade in Course
3	B
4	C

Missing Assignments (Labs)	Best Possible Grade in Course
5 or more	D

Honor

You are expected to follow the guidance given in:

Honor Concept of the Brigade of Midshipmen, USNAINST 1610.3F (or newer)

Policies Concerning Graded Academic Work, USNAINST 1531.53 (or newer)

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