Meeting Times

Class starts promptly on Zoom at 5:30PM MDST and ends at 9:30PM MDST. Class starts Tuesday, 1 June 2021. Last class is 27 July. If you can't make a class meeting contact me ahead of time to schedule a makeup.

Zoom ID: https://webster-edu.zoom.us/j/6491770087

Description

Specific methods, ethics, laws, policies and procedures for conducting strategic operations and countermeasures are the focus of this course. Students will learn how to identify critical infrastructures, communication channels, and information protection schemes and how to detect threats, assess vulnerabilities, penetrate and exploit cyber targets, understand how to monitor, spoof, redirect and deny access, as well as protect critical assets.

Requisites

CSSS 5000 Introduction to Cybersecurity (3)

Objectives

1. Identify and provide examples of a strategic cyber operation? What attributes make it strategic in nature?
2. Make recommendations as to how should US/partners senior leadership respond to increasingly hostile/strategic cyber attacks?
3. Make recommendations as to how do you deal with adversaries that attack us and then say "it wasn't us?*
4. What cyber attack effect would change your personal life?

I consider you practitioners of cyber security. As we go through the course, do not just "admire the problems" presented, devise strategies, policies and approaches to deal with them

Outcomes

After completing this course, students will:

- Know and understand how to identify communication channels, information protection schemes and how to detect threats, assess vulnerabilities, penetrate and exploit cyber targets, understand how to monitor, spoof, redirect and deny access, as well as protect critical assets.
- Summarize and demonstrate an understanding of the vocabulary of Cybersecurity terms and phraseology.
- Acquire and differentiate a broad understanding of the Cybersecurity strategic operations environment, including methods, ethics, laws, policies and procedures.
- Demonstrate and differentiate a basic working knowledge of Cybersecurity strategic operations as well as an awareness of current targets, vulnerabilities, and growing threats. Describe the roles, responsibilities, and tools of a Cybersecurity system technician, project and/or program manager.
- Summarize and discuss an understanding of the basics of the Comprehensive National Cybersecurity Initiative (CNCI).

Required Textbook

Cybersecurity and Cyberwar: What Everyone Needs to Know

Author: Singer, Friedman
Publisher: Oxford University Press
Edition: 2014
ISBN: 978-0199918119
Materials

Most of our assigned readings will be from online sources. The book will usually be the first reading assignment of the day.

Campus Information