NATIONAL SECURITY IN THE CYBER DOMAIN

PAD 4936/5935
Online

Course Description

The wars of modern history bring to mind spanning battlefields, epic masses of troops, and increasingly deadly physical weaponry. Yet, as technology has hurriedly evolved in the early 21st century, so too have the cyber capabilities already displacing the conventional venues and weapons of conflict. This course will focus on the intersections of U.S. national security and cyberspace. It will review formative modern cyber incidents, introduce the dominant cyber threat actors and vectors, and explore the current cyberspace implications for military strategy, foreign policy, and strategic deterrence.

Course Instructor

Chris Carhart
Adjunct Instructor
ccarhart@fsu.edu
(850) 644-9961 (Office)
COSS/Emergency Management & Homeland Security
Office Hours Available by Appointment

Learning Objectives

Students will demonstrate an understanding and comprehension of the following concepts:
(these are not listed in order of presentation or importance)

- Familiarity with current trends in cybersecurity and related national security issues
- Historical primer on formative national security cyber incidents
- Introduction to cyber threat actors and their tradecraft practices
- Understanding of the cybersecurity lifecycle and its relevance to national security
- Look-ahead to predict future threats
- Application of learned principles and techniques in a simulated exercise

Required Course Materials

- Clarke, R. (2019). The Fifth Domain: Defending Our Country, Our Companies, and Ourselves in the Age of Cyber Threats. Penguin Press. ISBN 978-0525561965

Student Responsibilities

- Students should log on to Canvas at least every other day to check for course updates.
- Students are expected to keep up with the class, engage with the course material, and submit assignments by due dates.
- The Academic Honor Policy states that each instructor determines whether group work is allowed on assignments, quizzes, and exams. My expectations for assignments in this course are included in the assignment directions. If you are ever in doubt, ask me to clarify, and assume that individual work is the default expectation.
- To receive maximum points for questions, students need to follow the instructions carefully, follow word limits as instructed, and use spell and grammar checking.
- To be successful in this course, students need to complete all required assignments and tests.

Grading Policy

With the exception of the Final Exam, or unless otherwise directed, ALL assignments are due by 11:55pm Sundays.

A grade of "C" or better must be obtained for this course to count towards completion of the Emergency Management and Homeland Security certificate.

The instructor(s) will attempt to grade assignments (in general) the week after the assignment has been submitted by the student. There will be certain circumstances when grading may be delayed.

If a "--" appears next to a listed assignment in "Grades" a week AFTER the assignment is due, it means that the assignment was not submitted/completed by the student at all. If a "0" or appears next to a listed assignment in "Grades" AFTER the assignment is due, it means that the submitted assignment was either graded "failed" or the assignment was not submitted/completed by the student at all. Either should be an indication that the student should contact the instructor(s) immediately.

The instructor does not normally entertain giving an overall "Incomplete" (I) grade.

Grades will be presented within Canvas as a percentage from 0% to 100%. The weight of each assignment is detailed within this Syllabus. Because each assignment is weighted differently, students should understand that their overall grade for the course is a "weighted average".

Assignment Weight

Mid-Term Exam /15%
Late-Term Exam /15%
Tabletop Exercise /15%
Memos (4 @ 5% each) /20%
Reading Quizzes (5 @ 5% each) /20%
Guest Lecture /15%

TOTAL/100%

Canvas Support

Need help with Canvas? Contact FSU Canvas Support:
Email: canvas@fsu.edu
Phone: (850) 644-8004
Website: support.canvas.fsu.edu
Hours: 8am to 5pm, Monday - Friday

Ongoing access to a computer and a reliable Internet connection are required for this course. Any technical issues with either "your" computer, "your" Internet connection or "your" installed software or "your" maintenance cannot be fixed by the instructors, "you" must fix them. When experiencing a problem with "Canvas" (as opposed to a problem with your computer or Internet access) while accessing course content, submitting assignments or taking a quiz/examination, the first action should be to immediately contact the Canvas Support Center by calling (850) 644-8804 or submitting a trouble "Ticket" at:

https://canvas.campus.fsu.edu/home

Failing to contact the Canvas Support Center when encountering a problem immediately may result in the penalties associated with any assignment or quiz/examination involved.

Canvas is also supported by a mobile app. Just because Canvas is accessible on your mobile devices does not mean that the instructors are responsible should the app not work as advertise with your mobile device nor are we versed in how to correct any mobile access problems. The instructors highly recommend that any course assignment submissions be done through a normal browser using a normal computer. The failure of a mobile device to successfully interface with this course will not be accepted as an excuse for "any" actions required for this course.

Grading Scheme
The following grading standards will be used in this class:

Grade	Range
A	100% to 93%
A-	< 93% to 90%
B+	< 90% to 87%
B	< 87% to 83%
B-	< 83% to 80%
C+	< 80% to 77%
C	< 77% to 73%
C-	< 73% to 70%
D+	< 70% to 67%
D	< 67% to 63%
D-	< 63% to 60%
F	< 60% to 0%

Technology Requirements

Course content is accessible through Canvas. Students will need to be able to view videos, write and upload assignments, post to discussion boards, and take assessments. Students should have access to high-speed internet and updated software. Mobile devices may be used to view course content, upload assignments, and take assessments as determined by the instructor. To view the most current technology requirements, visit the <u>FSU Canvas support site</u>.

FSU Libraries Resources & Services

Whether on campus or learning online, you can access extensive library resources and support services through the <u>FSU Libraries website</u>. You'll find links to databases, an orientation, our Strozier Scoop newsletter, and other helpful resources in the <u>FSU Libraries for Students</u> Canvas site. For recommended research resources and ways to connect with <u>your librarians</u>, look for the "Library Tools" in your course navigation or learn more about <u>Getting Started</u> at the Libraries.

Late Assignment & Exam Policy

Course reading and assignment materials are presented in a building block process. Proper understanding of concepts and theories is contingent on the course content presented before it. It's therefore important that reading and assignments be done on time to facilitate proper understanding of the concepts and theories that follow.

You will find us quite helpful if you communicate assignment due date conflicts either ahead of time or as they happen. You'll find us much less accommodating when we haven't heard from you about conflicts/problems several days (or weeks) after the fact. A quick email or 20 second phone call could end up saving you a lot of problems later on. We only postpone the due dates of assignments for legitimate reasons (I get to decide what is legitimate) and for a maximum of one week at a time. If you need extra time beyond that...you must communicate a request and receive approval for an additional extension.

All times in this Syllabus are based on the "U.S. EASTERN" time zone.

Assignments, quizzes and exams in "Canvas" automatically close upon each assignment deadline. With the exception of Threaded Discussion Questions **(TDQ's MAY NOT be turned in late or made up)** missed assignments may only be made up through an "Email" request to the **Instructor of Record**. Arranging to make up work missed is the responsibility of the student. Failure to request and obtain authorization by the instructors or to follow the specific instructions the instructors provide could result in the assignment not being accepted for grading.

There is a 20% penalty "per day" for late assignments/exam completion.

The instructors are much more forgiving of past-due assignments if students inform us as, or immediately after, problems happen. We are much less accommodating as time passes. Because late work often involves grade penalties that (by university policy) must be applied equally, students will find the instructors much less accommodating when notified of conflicts/problems "after" a deadline has passed.

Penalties associated with late assignments attributed to computer/Internet or "Canvas" problems will be adjudicated by whether the student followed the instructions described in the "Online/"Canvas" Technical Issues" section of this Syllabus.

Only absences/missed assignments excuses of a type approved by university policy will be accepted. Students who will miss or do miss an assignment or class will be expected to notify the professor with university-approved documentation no later than one business day following the missed class/assignment.

Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.

University Policies

University Attendance Policy

Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.

Academic Honor Policy

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of student's academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to "… be honest and truthful and …[to] strive for personal and institutional integrity at Florida State University." (For more details, see the FSU Academic Honor Policy and procedures for addressing alleged violations.)

Academic Success

Your academic success is a top priority for Florida State University. University resources to help you succeed include tutoring centers, computer labs, counseling and health services, and services for designated groups, such as veterans and students with disabilities. The following information is not exhaustive, so please check with your advisor or the Department of Student Support and Transitions to learn more.

Process for Resolving Academic Problems or Grievances

Please use the *Resolving Academic Problems: A Step-by-Step Guide for Students* in the Academic Honor Policy and Grievances section of the Office of Faculty Development & Advancement website to begin the process of communicating with your instructor to resolve any confusion or difficulty you may be having in the course. Detailed information on FSU's grievance procedure, including special instructions for students enrolled in an FSU branch campus, is

maintained on the FSU Undergraduate Bulletin's Academic Integrity & Grievances webpage. Out-of-state distance learning students should review the Office of Distance Learning Complaint Resolution webpage for additional procedures.

Americans With Disabilities Act

Florida State University (FSU) values diversity and inclusion; we are committed to a climate of mutual respect and full participation. Our goal is to create learning environments that are usable, equitable, inclusive, and welcoming. FSU is committed to providing reasonable accommodations for all persons with disabilities in a manner that is consistent with academic standards of the course while empowering the student to meet integral requirements of the course.

Students with disabilities needing academic accommodation should:

1. register with and provide documentation to the Office of Accessibility Services; and
2. request a letter from the Office of Accessibility Services to be sent to the instructor indicating the need for accommodation and what type; and,
3. meet (in person, via phone, email, teams, zoom, etc...) with each instructor to whom a letter of accommodation was sent to review approved accommodations.

Please note that instructors are not allowed to provide classroom accommodations to a student until appropriate verification from the Office of Accessibility Services has been provided.

This syllabus and other class materials are available in an alternative format upon request.

For the latest version of this statement and more information about services available to FSU students with disabilities, contact the:

Office of Accessibility Services (*Tallahassee Campus*)
874 Traditions Way
108 Student Services Building
Florida State University
Tallahassee, FL 32306-4167
(850) 644-9566 (voice)
(850) 644-8504 (TDD)
oas@fsu.edu
https://dsst.fsu.edu/oas

Student Accessibility Services (Panama City Campus)
2nd Floor Barron Building (Room 215)
Florida State University Panama City
Panama City, FL 32405
(850) 770-2172 (office)
(866) 693-7872 (toll free)
Email: sds@pc.fsu.edu
https://pc.fsu.edu/students/sas

Free Tutoring from FSU

On-campus tutoring and writing assistance are available for many courses at Florida State University. High-quality tutoring is available by appointment and on a walk-in basis. These services are offered by tutors trained to encourage the highest level of individual academic success while upholding personal academic integrity.

Tallahassee Campus

For a comprehensive list of on-campus tutoring options, visit the Academic Center for Excellence (ACE) webpage (http://ace.fsu.edu/tutoring) or contact tutor@fsu.edu.

Panama City Campus

Peer tutoring is available for all undergraduate FSU Panama City students both in-person on campus and remotely through Zoom. If you need tutoring support, please email the peer tutor listed on the Peer Tutoring webpage (https://pc.fsu.edu/peer-tutoring). Tutoring will be in-person in the John and Gail Robbins Center for Academic Excellence and Innovation unless you specify with the tutor that you would like to meet via Zoom instead. If you have trouble reaching a peer tutor outside their scheduled availability listed on the Peer Tutoring webpage, you may email advising@pc.fsu.edu or call (850) 770-2263 to be connected with available resources.

Confidential Campus Resources

Various centers and programs are available to assist students with navigating stressors that might impact academic success. These include the following:

Victim Advocate Program
University Center A
Room 4109
Phone: (850) 644-7161 (24/7)
Text: (850) 756-4320 (24/7)
Email: Victims-Advocate@fsu.edu
Office Hours: Monday-Friday 8am-5pm
https://dsst.fsu.edu/vap

Counseling & Psychological Services (*Tallahassee Campus*)
Askew Student Life Center, 2nd Floor
942 Learning Way
Phone: (850) 644-8255 / (850) 644-TALK
https://counseling.fsu.edu

FSU PC Counseling Center (*Panama City Campus*)
Michael McLaughlin, LCSW
Coordinator/Therapist
Barron Building, Office 214
Phone: (850) 770-2174
Email: mrm18bg@fsu.edu
Office Hours: Monday-Thursday 9am-4pm; Friday 9am-3pm
https://pc.fsu.edu/students/student-affairs/counseling-center

Health and Wellness Center
960 Learning Way
Phone: (850) 644-6230
Office Hours: Monday-Friday 8am-4pm
https://uhs.fsu.edu

FSU Food Pantries

FSU has established food pantries where students in need can pick up nonperishable food items freely and anonymously. Donations for the collection of nonperishable food items are encouraged. For information about the Tallahassee food pantry, visit the Food for Thought Pantry webpage (https://dsst.fsu.edu/resources/food-for-thought-pantry). The pantry is located at University Center A, Suite 4148. If you have questions or concerns, contact the Department of Student Support and Transitions at foodpantry@fsu.edu or (850) 644-2428.

For information about the Panama City Food Pantry, visit the Seminole Exchange webpage (https://pc.fsu.edu/students/counseling-center/food) The pantry is located at Barron Building, 2nd floor. If you have questions or concerns, contact Michael McLaughlin, LCSW, at mmclaughlin3@fsu.edu or (850) 770-2174.

Syllabus Change Policy

Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.

Honor Code

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to ". . . be honest and truthful and . . . [to] strive for personal and institutional integrity at Florida State University." (Florida State University Academic Honor Policy, found at **http://fda.fsu.edu/academic-resources/academic-integrity-and-grievances/academic-honor-policy** .)

The Florida State University Academic Honor Policy lists eight types of violations:

1. **Plagiarism**: Presenting the work of another as one's own (i.e., without proper acknowledgement of the source).
2. **Cheating**: Improper access to or use of any information or material that is not specifically condoned by the instructor for use in the academic exercise.
3. **Unauthorized Group Work**: Unauthorized collaborating with others.
4. **Fabrication, Falsification, and Misrepresentation**: Unauthorized altering or inventing of any information or citation that is used in assessing academic work.
5. **Multiple Submissions**: Submitting the same academic work (including oral presentations) for credit more than once without instructor permission.
6. **Abuse of Academic Materials**: Intentionally damaging, destroying, stealing, or making inaccessible library or other academic resource material.

7. **Complicity in Academic Dishonesty**: Intentionally helping another to commit an act of academic dishonesty.
8. **Attempting to commit any offense as outlined above.**

Students are expected to do their own original work and are responsible for submitting/completing assignments on time. Any student caught cheating, including using papers, reports, or tests from other students, will be penalized to the full extent allowed by the Student Handbook.

Internet Searches for Quiz/Exam & Wiki Use/Artificial Intelligence

Students should be aware that the instructors develop quiz/exam questions and answers by conducting internet searches for possible answers not from the assigned materials. Quiz/exam questions have been adjusted so that searching the Web for an expedient answer (and an Honor Code violation) while taking a test online may well end up being wrong. So…do the reading.

You may not cite **"ANY"** Wiki as an original source. However, you are encouraged to scroll down to the references section of a given Wiki page. There, you will find the original sources for the information you wish to use in your research. You should look up and reference these sources for class assignments.

Unless otherwise sanctioned in assignment instructions, and to maintain academic integrity and fairness in grading, the use of Artificial Intelligence to write any portion of submitted work is a violation of EMHS policy. The use of citations is not an acceptable way to introduce AI-generated text into submissions. Violations of this policy will treated as plagiarism and will result in disciplinary action in-line with all other Honor Code violations.

Memos

There are 4 memo assignments this semester. These assignments are a way to introduce new concepts and evaluate your ability to apply them in short order. Prompts will vary per assignment but will generally involve a reading requirement and brief written response. Memos are posted in the "Discussions" section of Canvas to encourage students to read other's posts and discuss.

Quizzes & Exams

Quiz questions will be based on the assigned readings from the textbook(s) and articles/documents posted in the weekly course modules.

Exams will be based on all course materials except the assigned textbook readings (which are covered by the quizzes). The Final Exam is not comprehensive.

Quizzes and the Mid-Term Exam will be conducted through "Canvas", and as such are open book and open notes. You may not consult with other students or sources on quiz or exam answers – all work is to be your own. **You will have one (1) attempt and an appropriate amount of time to complete each quiz/exam. Although all quizzes and the Mid-Term Exam are "open book", the time allotted is not enough time to search for answers while taking the quiz or exam. Quiz questions are presented randomly, one at a time with no backtracking after the question has been answered which means once you've answered the question, you may not go back and change it. Exams questions (which usually include essay questions) are presented all at once so that students can decide how to manage their allotted time.**

The details for the Final Exam will be provided as the semester progresses.

Tabletop Exercise

After the learning content is presented, you will perform a tabletop simulated exercise. Instructions will be provided in "Canvas". This assignment will be conducted as an assigned group but graded individually.

Guest Lecture

A guest lecturer will speak to the class via Zoom at their convenience during the semester. Ample warning will be given to allow students to schedule around this event. **Attendance is mandatory, as is the associated "Q&A Assignment" posted to Canvas.**

Extra Credit

To receive 2 points of extra credit on top of your final grade in this course, students must complete an assignment announced later in the semester via Canvas.