# INR 4764H - HONORS CYBERWARFARE POLICY

**Section:** 0201

*College of Sciences*

School of Politics, Security, and Intl Affairs

## Course Information

**Term:** Fall 2024
**Class Meeting Days:** TR
**Class Meeting Time:** 15:00 - 16:20
**Class Meeting Location:** CB1 O117
**Modality:** P
**Credit Hours:** 3.00

## Instructor Information

Teddy Reynolds
**Title:** Dr.
**Office Location:** BYC 106-B
**Office Hours:**
Thursday 11am-2pm, or by appt
**Phone:** 407-823-2607
**Email:** Teddy.Reynolds@ucf.edu

## Teaching Assistants

N/A

## Course Description

INR 4764H COS-POLS 3(3,0)Honors Cyberwarfare Policy: PR: POS 2041 OR ENC 1102 OR INR 2002, and Consent of Honors or C.I. Examination of roles and how nations, groups, and individuals use cyber-attacks and cyber espionage against adversaries. Challenges of current and proposed policy. With honors content. Fall.

**Cyber-Warfare Policy**

An examination of how nations, groups, and individuals throughout the world use Internet/cyber-attacks to gain military, political, and economic gains over their adversaries. Specific focus will be given to understanding the role various states and hacker groups play in conducting cyber-attacks and cyber espionage. Further, this class will examine current cyber policy both internationally and domestically, the challenges related to current policy and proposed policy changes, and wrestle with the question of whether cyber-attacks can/will be considered 'acts of war' and why. Central to the discussion will be considering the true nature of the threat posed by these various attacks and whether cyber policies can offer reasonable and reliable protections without becoming overly intrusive to private citizens.

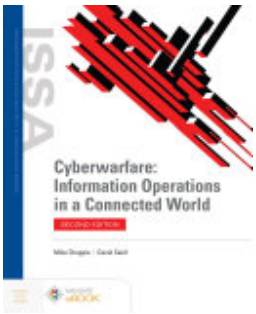
## Student Learning Outcomes

**Objectives:**

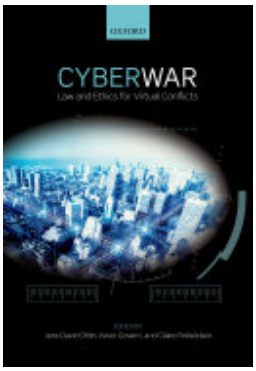
There are several objectives to this class. First is to familiarize you with the various elements of cyber-warfare, cyber-terrorism, and cybercrimes including those that are used to finance extremist/terrorist operations. This will include examining the states, groups, and individuals who engage in these activities and the impact they have on individual, industry, and state security. Second is to engage in a substantive discussion regarding the future of these cyber activities and how the governments should respond both politically and possibly militarily. Finally, all of the content within this course as well as supplemental material will be used to consider the overarching question of whether cyber-attacks should be considered an act of war, what the appropriate response should be, and whether the international community will be able to implement effective cyber policy as a deterrent to prevent these attacks.

## Course Materials and Resources

**Cyberwarfare: Information Operations in a Connected World**




**ISBN:** 9781284225440
**Authors:** Mike Chapple, David Seidl
**Publisher:** Jones & Bartlett Learning
**Publication Date:** 2021-10-11




**Cyberwar**
**ISBN:** 9780198717492
**Authors:** Jens David Ohlin, Kevin Govern, Claire Oakes Finkelstein
**Publisher:** Oxford University Press
**Publication Date:** 2015-01-01

## Course Assessment and Grading Procedure

**Basis for Final Grade**

| Assessment | Percent of Final Grade |
|---|---|
| Attendance/Participation | 10% |
| Midterm | 20% |
| Quizzes | 20% |
| Paper | 20% |
| Presentation | 10% |
| Final Exam | 20% |
| Total | 100% |

## Assignment Schedule

| Due Date | Assignment Name | Assignment Type | Points |
|---|---|---|---|
| 8/25 | Financial Aid Assignment | Assignment | 0 |

## Grading Scale

| Grading Scale (%) | | |
|---|---|---|
| 90-100 | | A |
| 87 - 89 | | B+ |
| 80 - 86 | | B |
| 77 - 79 | | C+ |
| 70 - 76 | | C |
| 67 - 69 | | D+ |
| 60 - 66 | | D |
| 0 - 59 | | F |

## Policies for Course Grade

The research paper topic will be submitted to and approved by the instructor culminating in a 10-page double spaced paper to be submitted at the end of the term. The focus of the paper will be directly related to an important aspect of cyberwarfare and offer an in-depth examination and analysis of the individual research area chosen. The presentation will be focused on the research topic being covered in the paper.

Midterm and final exams will be essay exams.

**Quizzes** will be administered in class on the days indicated, focusing on terminology and important concepts.

**Late Work Policy**:

There are no make-ups for any graded assessments. Papers/exams turned in late will be assessed a penalty of a full letter grade (10 points) per day late.
Writing assignments will not be accepted if overdue by more than four calendar days. There are NO makeups on missed quizzes.

**Grades of "Incomplete"**:
The current university policy concerning incomplete grades will be followed in this course. Incomplete grades are given only in situations where unexpected emergencies prevent a student from completing the course and the remaining work can be completed the next semester. Your instructor is the final authority on whether you qualify for an incomplete. Incomplete work must be finished by the end of the subsequent semester or the "I" will automatically be recorded as an "F" on your transcript.

## Course Accessibility

The University of Central Florida is committed to providing access and inclusion for all persons with disabilities. Students with disabilities who need access to course content due to course design limitations should contact the professor as soon as possible. Students should also connect with Student Accessibility Services (SAS) (Ferrell Commons 185, sas@ucf.edu, phone 407-823-2371). For students connected with SAS, a Course Accessibility Letter may be created and sent to professors, which informs faculty of potential course access and accommodations that might be necessary and reasonable. Determining reasonable access and accommodations requires consideration of the course design, course learning objectives and the individual academic and course barriers experienced by the student. Further conversation with SAS, faculty and the student may be warranted to ensure an accessible course experience.

## Academic Integrity

Students should familiarize themselves with UCF's Rules of Conduct at Student Conduct and Integrity Office. According to Section 1, "Academic Misconduct," students are prohibited from engaging in:

a. Academic misconduct is defined as any submitted work or behavior that obstructs the instructor of record's ability to accurately assess the student's understanding or completion of the course materials or degree requirements (e.g., assignment, quiz,

and/or exam). Examples of academic misconduct include but are not limited to: plagiarism, unauthorized assistance to complete an academic exercise; unauthorized communication with others during an examination, course assignment, or project; falsifying or misrepresenting academic work; providing misleading information to create a personal advantage to complete course/degree requirements; or multiple submission(s) of academic work without permission of the instructor of record.

b. Any student who knowingly helps another violate academic behavior standards is also in violation of the standards.

c. Commercial Use of Academic Material. Selling of course material to another person and/or uploading course material to a third-party vendor without authorization or without the express written permission of the University and the instructor of record. Course materials include but are not limited to class notes, the instructor of record's slide deck, tests, quizzes, labs, instruction sheets, homework, study guides, and handouts.

d. Soliciting assistance with academic coursework and/or degree requirements. The solicitation of assistance with an assignment, lab, quiz, test, paper, etc., without authorization of the instructor of record or designee is prohibited. This includes but is not limited to asking for answers to a quiz, trading answers, or offering to pay another to complete an assignment. It is considered Academic Misconduct to solicit assistance with academic coursework and/or degree requirements, even if the solicitation did not yield actual assistance (for example, if there was no response to the solicitation).

**Responses to Academic Dishonesty, Plagiarism, or Cheating**

Students should also familiarize themselves with the procedures for academic misconduct in UCF's student handbook, *The Golden Rule*. UCF faculty members have a responsibility for students' education and the value of a UCF degree, and so seek to prevent unethical behavior and respond to academic misconduct when necessary. Penalties for violating rules, policies, and instructions within this course can range from a zero on the exercise to an "F" letter grade in the course. In addition, an Academic Misconduct report could be filed with the Office of Student Conduct, which could lead to disciplinary warning, disciplinary probation, or deferred suspension or separation from

the University through suspension, dismissal, or expulsion with the addition of a “Z” designation on one’s transcript.

Being found in violation of academic conduct standards could result in a student having to disclose such behavior on a graduate school application, being removed from a leadership position within a student organization, the recipient of scholarships, participation in University activities such as study abroad, internships, etc.

Let’s avoid all of this by demonstrating values of honesty, trust, and integrity. No grade is worth compromising your integrity and moving your moral compass. Stay true to doing the right thing: take the zero, not a shortcut.

## Title IX

Title IX prohibits sex discrimination, including sexual misconduct, sexual violence, sexual harassment, and retaliation. If you or someone you know has been harassed or assaulted, you can find resources available to support the victim, including confidential resources and information concerning reporting options at Let's Be Clear and UCF Cares.

For more information on diversity and inclusion, Title IX, accessibility, or UCF’s complaint processes contact:

- Title IX – OIE – Office of Institutional Equity & askanadvocate@ucf.edu
- Disability Accommodation – Student Accessibility Services – Student Accessibility Services & sas@ucf.edu
- Access and Community Engagement (including the Ginsberg Center for Inclusion and Community Engagement, Military and Veteran Student Success, and HSI Initiatives)
- UCF Compliance and Ethics Office – Compliance, Ethics, and Risk Office & complianceandethics@ucf.edu
- The Ombuds Office is a safe place to discuss concerns.

## Reporting an Incident or Issue

If you believe you have experienced abusive or discriminatory behavior by any faculty of staff member, contact the Office of Institutional Equity online or at 407-823-1336. You can also choose to report using the UCF Integrity Line and can report anonymously or as yourself at 1-855-877-6049 or using the online form. UCF cares about you and takes every report seriously. For more information see the Reporting an Incident or Issue Webpage.

## Deployed Active-Duty Military Students

Students who are deployed active duty military and/or National Guard personnel and require accommodation should contact their instructors as soon as possible after the semester begins and/or after they receive notification of deployment to make related arrangements.

## Campus Safety

At UCF Public Safety and Police, safety is the top priority. Emergencies on campus are rare, but if one should arise, it's important to be familiar with some basic safety and security concepts.

- In an emergency, always dial 911.
- Every UCF classroom has an **Emergency Procedure Guide** posted on a wall near the door, which will show you how to respond to a variety of situations. This guide can also be found online here.
- In the event of an active threat, remember **AVOID, DENY, DEFEND**. Choose the best course of action and act immediately. Watch the video here to learn more.
    - **AVOID**. Pay attention to your surroundings and have an exit plan. Get as much distance and as many barriers between you and the threat as quickly as possible.
    - **DENY.** When avoiding is difficult or impossible, deny the threat access to you and your space. Lockdown by creating barriers, turning the lights off and remaining quiet and out of sight. Make sure your cell phone is silenced, but do not turn it off.
    - **DEFEND.** When you are unable to put distance between yourself and thee threat, be prepared to protect yourself. Commit to your actions, be aggressive

and do not fight fairly. Do whatever it takes to survive.

- For emergencies on campus, UCF will utilize the UCF Alert system. All UCF students, faculty and staff are automatically enrolled to receive these email and text alerts, however, it's a good idea to frequently ensure your contact information is up to date.

## Financial Aid Accountability

All instructors/faculty are required to document students' academic activity at the beginning of each course. In order to document that you began this course, please complete this activity by the end of the first week of classes or as soon as possible after adding the course. Failure to do so may result in a delay in the disbursement of your financial aid.

## Class Schedule

| Date | Tuesday | Date | Thursday |
|---|---|---|---|
| 8/20 | First Day – No assignment<br>Introduction, syllabus, expectations | 8/22 | Chapter 1<br>Information as a Milita |
| 8/27 | Chapter 2<br>Targets and Combatants | 8/29 | NO CLASS<br>FOOTBALL GA |
| 9/3 | Chapter 3<br>Cyberwarfare, Law, and Ethics | 9/5 | Ohlin-TBD |
| 9/10 | Chapter 4<br>Intelligence Operations in a Connected World | 9/12 | Chapter 5 - QU<br>The Evolving Threat: From<br>to Advanced Attac |
| 9/17 | Chapter 6<br>Social Engineering and Cyberwarfare | 9/19 | Chapter 7<br>Weaponizing Cyber: A |
| 9/24 | Chapter 8<br>Nonstate Actors in Cyber | 9/26 | Chapter 9<br>Defense-in-Depth St |
| | Chapter 10 | | QUIZ 2 |

| | | | |
|---|---|---|---|
| **10/1** | **Cryptography and Cyberwar** | **10/3** | **Discuss research to** |
| **10/8** | **Finalize research topic**<br>**Receive Midterm Exam** | **10/10** | **Discussion** |
| **10/15** | **Turn in Midterm Exam** | **10/17** | **Chapter 11- Defending I** |
| **10/22** | **Chapter 12**<br>**Defending Networks** | **10/24** | **Chapter 13**<br>**Defending Data** |
| **10/29** | **Chapter 14**<br>**Cyberwarfare and Military Doctrine** | **10/31** | **Chapter 15- Pandora's Box:**<br>**Cyberwarfare**<br>**Quiz 3** |
| **11/5** | **Presentations** | **11/7** | **Presentations** |
| **11/12** | **Presentations** | **11/14** | **Presentations** |
| **11/19** | **Presentations** | **11/21** | **Final Presentatio** |
| **11/26** | **Research Papers Due**<br>**Receive Final Exam** | **11/28** | **NO CLASS-Holid** |
| **12/3** | **NO CLASS** | **11/5** | **FINAL EXAM DU** |