

2020 Summer Term

Course Syllabus

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Instructor Information

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Initial Office Hours are via Zoom on Monday May 11th office via Zoom hours are 10-11am and 6-7pm.

Zoom Meeting: ~~XXXXXXXXXXXXXXXXXXXX~~
 Meeting ID: ~~XXXXXXXXXXXX~~
 One tap mobile
 +1 303 492 1127 US (Mountain)
 +1 303 492 1127 US (Standard)

Course Description

This course introduces core concepts in cybersecurity with an emphasis on the impact of cybersecurity on government policies at the international and national level, politics, terrorism, and current topics. The course covers three main areas. One third of course covers the core aspects of cybersecurity including confidentiality, integrity, availability, and adversarial thinking. The course does not assume a technical background and will introduce students to cybersecurity tools and techniques. A second third of course emphasizes policy and social aspects of cybersecurity. This includes policies ranging from the US NIST Cybersecurity Framework to the European Union General Data Protection Regulation. Policy challenges ranging from government response to cyberattacks to issues like "Going Dark" due to encrypted traffic will be covered as well. The final of three areas varies each semester and covers current topics. Example topics may address why is cybersecurity important for our relations with Iran?" or "Can Russia really hack our elections?" or "Why is cyber terrorism a 21st century security threat?" The exact topics depend on current affairs and updates may even occur during a semester as current events warrant.

Learning Goals

We will build on the following three (3) primary learning goals throughout the term:

- Understand the core cybersecurity concepts of Confidentiality, Availability, and Integrity
- Understand the role cybersecurity plays in government policy at the international and national level
- Research a topic of interest and identify the key cybersecurity issues and trade-offs

Textbooks and Materials

There is no required textbook. Readings, videos, and other materials will be available on CANVAS.

Assignments and Grading

This course is evaluated on a scale of 100 total points. There are three week long course projects, CANVAS quizzes, and video assignments.

Course Project 1 on Cybersecurity Tools and Techniques. 25 points

Project 1 uses common cybersecurity tools to accomplish a technical objective such as cracking passwords on a fictional system. This week long project is designed for students without a technical background, introduces some of the tools cybersecurity professionals use, and illustrates how easily one can conduct basic cybersecurity technical operations.

Course Project 2 Memo and Public Service Announcement (PSA) on the impact of cybersecurity. 20 points

Students choose a role as senior manager at either an international organization, federal agency, state agency, or critical infrastructure provider. Students are presented with a cybersecurity scenario and must craft a one page memo describing what has happened and what future steps their organization should take. Students also record a 2 minute video PSA and provide a review the memo and PSA produced by 3 other students.

Course Project 3 Research Paper on a current topic in cybersecurity. 25 points

Students select an current topic and produce a research paper that describes a current topic, cites relevant articles and papers on the topic, and offer the student's perspective on the issues and recommendations on next steps.

Canvas Course Content Quizzes on Monday, Wednesday, and Friday of each week. 15 points total

CANVAS quizzes (true/false and multiple choice questions) assess students understanding of topics covered over the last few days. Quizzes are posted on Monday, Wednesday, and Friday of each week and due 24 hours later. For the three week Maymester, this results in a total of nine quizzes.

FlipGrid Video Policy Position Summaries on Tuesday and Thursday of each week. 15 points total

Students are presenting with discussion questions and use FlipGrid to record 1.5 minute video responses to the discussion question. Quizzes are posted on Tuesday and Thursday of each week and due 24 hours later. For the three week Maymester, this results in a total of six discussion questions.

Accommodation for Disabilities

If you qualify for accommodations because of a disability, please submit your accommodation letter from Disability Services to your faculty member in a timely manner so that your needs can be addressed. Disability Services determines accommodations based on documented disabilities in the academic environment. Information on requesting accommodations is located on the [Disability Services website](#). Contact Disability Services at 303-492-8671 or dsinfo@colorado.edu for further assistance. If you have a temporary medical condition or injury, see [Temporary Medical Conditions](#) under the Students tab on the Disability Services website.

Classroom Behavior

Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation or political philosophy. For more information, see the policies on [classroom behavior](#) and the [Student Code of Conduct](#).

Preferred Student Names and Pronouns

CU Boulder recognizes that students' legal information doesn't always align with how they identify. Students may update their preferred names and pronouns via the student portal; those preferred names and pronouns are listed on instructors' class rosters. In the absence of such updates, the name that appears on the class roster is the student's legal name.

Honor Code

All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the Honor Code. Violations of the policy may include: plagiarism, cheating, fabrication, lying, bribery, threat, unauthorized access to academic materials, clicker fraud, submitting the same or similar work in more than one course without permission from all course instructors involved, and aiding academic dishonesty. All incidents of academic misconduct will be reported to the Honor Code (honor@colorado.edu); 303-492-5550). Students found responsible for violating the academic integrity policy will be subject to nonacademic sanctions from the Honor Code as well as academic sanctions from the faculty member. Additional information regarding the Honor Code academic integrity policy can be found at the [Honor Code Office website](#).

Sexual Misconduct, Discrimination, Harassment and/or Related Retaliation

The University of Colorado Boulder (CU Boulder) is committed to fostering a positive and welcoming learning, working, and living environment. CU Boulder will not tolerate acts of sexual misconduct, intimate partner abuse (including dating or domestic violence), stalking, or protected-class discrimination or harassment by members of our community. Individuals who believe they have been subject to misconduct or retaliatory actions for reporting a concern should contact the Office of Institutional Equity and Compliance (OIEC) at 303-492-2127 or cureport@colorado.edu. Information about the OIEC, university policies, [anonymous reporting](#), and the campus resources can be found on the [OIEC website](#).

Please know that faculty and instructors have a responsibility to inform OIEC when made aware of incidents of sexual misconduct, discrimination, harassment and/or related retaliation, to ensure that individuals impacted receive information about options for reporting and support resources.

Religious Holidays

Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. In this class, **{Faculty: insert your procedures here}**.

See the [campus policy regarding religious observances](#) for full details.

Course Summary:

Date	Details	
Tue May 12, 2020	Quiz 1	due by 11:59pm
Wed May 13, 2020	Discussion Video 1	due by 11:59pm
Thu May 14, 2020	Quiz 2	due by 11:59pm
Fri May 15, 2020	Discussion Video 2	due by 11:59pm
	Project 1 - Intro to Cybersecurity Tools	due by 11:59pm
	Quiz 3	due by 11:59pm
Sun May 17, 2020	Post something about progress or issues on Project 1	due by 11:59pm
	Provide an answer that helps a fellow student resolve an issue with Project 1	due by 11:59pm
Tue May 19, 2020	Quiz 4	due by 11:59pm
Wed May 20, 2020	Discussion Video 3	due by 11:59pm
Thu May 21, 2020	Quiz 5	due by 11:59pm
Fri May 22, 2020	Discussion Video 4	due by 11:59pm
Sun May 24, 2020	COVID19 Memo and PSA	due by 11:59pm
	Quiz 6	due by 11:59pm
Tue May 26, 2020	Quiz 7	due by 11:59pm
Wed May 27, 2020	Discussion Video 5	due by 11:59pm
Thu May 28, 2020	Quiz 8	due by 11:59pm
	Discussion Video 6	due by 11:59pm
Fri May 29, 2020	Extra Credit: Password Cracking	due by 11:59pm
	Quiz 9	due by 11:59pm
Sun May 31, 2020	Current Topic Paper	due by 11:59pm
Mon Jun 1, 2020	Extra Credit: Network Mapping	due by 11:59pm
	Session 10 - COVID-19 Cyber Attacks	
	Session 11 - COVID - 19 Cyber Attack Memo Peer Review and Presentation	
	Session 12 - Consolodate Your Memo	

August 2020							
26	27	28	29	30	31	1	
2	3	4	5	6	7	8	
9	10	11	12	13	14	15	
16	17	18	19	20	21	22	
23	24	25	26	27	28	29	
30	31	1	2	3	4	5	

Assignments are weighted by group:

Group	Weight
Course Material Quizzes	15%
Discussion Videos	15%
Project 1 - Technical Project	20%
Project 2 - Senior Leader Memo and PSA	25%
Project 3 - Research Paper	25%
Extra Credit	0%
Imported Assignments	0%
Total	100%