

Spring 2022

Dates course will run: January 10, 2022 – May 6, 2022

Instructor Information

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Teaching Assistant

None

General Course Information

Description

In this course students will develop a capstone project that focuses on “in-context” learning. Students will apply knowledge gained from the various courses they have taken in their programs thus far. The goal of the project is to address a real-world cyber security problem or policy. The scope of the problem should be appropriate for a 5-hour project course. Students will identify a cyber security problem, either policy-related or technical, and develop and implement a solution. Students will make weekly progress reports and provide peer feedback to their peers on their initial presentations. Finally, at the end of the course, students will deliver a final presentation or demo (when applicable) and submit a detailed report that describes their solution, its efficacy and limitations.

Pre- &/or Co-Requisites

Pre-registration approval required.

Course Objectives

- Outline a novel approach to a technical or policy-based cyber security problem
- Design and implement a solution to the identified problem
- Evaluate and validate the solution’s effectiveness at solving the problem

Course Materials

Course Text

No textbook.

Additional Materials/Resources

Outside materials and technologies required is dependent on each project’s individual needs.

Course Website and Other Classroom Management Tools

All course materials and videos are located on Canvas.

Office Hours

For the office hours, please use the following [BlueJeans link](#):

Course Requirements, Assignments & Grading

Assignment Distribution and Grading Scale

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Assignment	Weight
Initial Project Proposal	<i>(At the end of the first week of the semester)</i>
Ongoing Feedback on Peer Proposals	25% (4 points for each bi-weekly feedback report and 5 points for final presentation feedback report). These reports must provide meaningful information and show understanding of the project being reviewed.
Weekly Progress Reports	25% (5 points for each report). These reports should reflect approximately 30 hours of effort over two weeks.
Final Presentation	20%
Final Project Report	30%

Grading Scale

Your final grade will be assigned as a letter grade according to the following scale:

A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	0-59%

Assignment Due Dates

All assignments are due at 11:59:00pm EST, unless otherwise noted. All assignments are due relative to the Eastern Standard Time Zone (EST). Eastern Standard Time is UTC -5. Eastern Daylight time is UTC -4. We will not accept assignments submitted late due to time zone issues. You should update your canvas to account for EST if you are in a different time zone. There are no exceptions.

Late and Make-up Work Policy

There will be no make-up work provided for missed assignments. Of course, emergencies (illness, family emergencies) will happen. In those instances, please [contact the Dean of Students office](#). The Dean of Students is equipped to verify emergencies and pass confirmation on to all your classes. For consistency, we ask all students to do this in the event of an emergency.

Technology Requirements and Skills

Computer Hardware and Software

- High-speed Internet connection
- Laptop or desktop computer with a minimum of a 2 GHz processor and 2 GB of RAM
- Windows for PC computers OR Mac iOS for Apple computers.
- Complete Microsoft Office Suite or comparable and ability to use Adobe PDF software (install, download, open and convert)
- Mozilla Firefox, Chrome browser, and/or Safari browsers (Chrome required for on-boarding quiz)

Canvas

This class will use Canvas to deliver course materials to online students. ALL course materials and assessments will take place on this platform.

Course Policies, Expectations & Guidelines

Communication Policy

You are responsible for knowing the following information:

1. Anything posted to this syllabus
2. Anything emailed directly to you by the teaching team (including announcements via Piazza), 24 hours after receiving such an email.

Because Piazza announcements are emailed to you as well, you need only to check your Georgia Tech email once every 24 hours to remain up-to-date on new information during the semester. Georgia Tech generally recommends students to check their Georgia Tech email once every 24 hours. So, if an announcement or message is time sensitive, you will not be responsible for the contents of the announcement until 24 hours after it has been sent.

Online Student Conduct and (N)etiquette

Communicating appropriately in the online classroom can be challenging. In order to minimize this challenge, it is important to remember several points of “**internet etiquette**” that will smooth communication for both students and instructors:

1. Read first, Write later. Read the ENTIRE set of posts/comments on a discussion board before posting your reply, in order to prevent repeating commentary or asking questions that have already been answered.
2. Avoid language that may come across as strong or offensive. Language can be easily misinterpreted in written electronic communication. Review email and discussion board posts BEFORE submitting. Humor and sarcasm may be easily misinterpreted by your reader(s). Try to be as matter-of-fact and professional as possible.
3. Follow the language rules of the Internet. Do not write using all capital letters, because it will appear as shouting. Also, the use of emoticons can be helpful when used to convey nonverbal feelings. ☺
4. Consider the privacy of others. Ask permission prior to giving out a classmate's email address or other information.
5. Keep attachments small. If it is necessary to send pictures, change the size to an acceptable 250kb or less (one free, web-based tool to try is picresize.com).
6. No inappropriate material. Do not forward virus warnings, chain letters, jokes, etc. to classmates or instructors. The sharing of pornographic material is forbidden.

NOTE: *The instructor reserves the right to remove posts that are not collegial in nature and/or do not meet the Online Student Conduct and Etiquette guidelines listed above.*

University Use of Electronic Email

A university-assigned student e-mail account is the official university means of communication with all students at Georgia Institute of Technology. Students are responsible for all information sent to them via their university-assigned e-mail account. If a student chooses to forward information in their university e-mail account, he or she is responsible for all information, including attachments, sent to any other e-mail account. To stay current with university information, students are expected to check their official university e-mail account and other electronic communications on a frequent and consistent basis. Recognizing that some communications may be time-critical, the university recommends that electronic communications be checked minimally twice a week.

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Plagiarism & Academic Integrity

Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. All students enrolled at Georgia Tech, and all its campuses, are to perform their academic work according to standards set by faculty members, departments, schools and colleges of the university; and cheating and plagiarism constitute fraudulent misrepresentation for which no credit can be given and for which appropriate sanctions are warranted and will be applied. For information on Georgia Tech's Academic Honor Code, please visit <http://www.catalog.gatech.edu/policies/honor-code/> or <http://www.catalog.gatech.edu/rules/18/>.

Any student suspected of cheating or plagiarizing on a quiz, exam, or assignment will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.

Accommodations for Students with Disabilities

If you are a student with learning needs that require special accommodation, contact the Office of Disability Services at (404)894-2563 or <http://disabilityservices.gatech.edu/>, as soon as possible, to make an appointment to discuss your special needs and to obtain an accommodations letter. Please also e-mail me as soon as possible in order to set up a time to discuss your learning needs.

Student-Faculty Expectations Agreement

At Georgia Tech we believe that it is important to strive for an atmosphere of mutual respect, acknowledgement, and responsibility between faculty members and the student body. See <http://www.catalog.gatech.edu/rules/22/> for an articulation of some basic expectation that you can have of me and that I have of you. In the end, simple respect for knowledge, hard work, and cordial interactions will help build the environment we seek. Therefore, I encourage you to remain committed to the ideals of Georgia Tech while in this class.

Subject to Change Statement

The syllabus and course schedule may be subject to change. Changes will be communicated via the Canvas announcement tool. It is the responsibility of students to check Piazza, email messages, and course announcements to stay current in their online courses.