

Instructor Information

- Name: Lily Gross
- E-Mail: Lily.Gross@charlotte.edu
- Office Hours: By Appointment

Course Policies

- This syllabus contains the policies and expectations I have established for ITSC 4681. Please read the entire syllabus carefully before continuing in this course. These policies and expectations are intended to create a productive learning atmosphere for all students. Unless you are prepared to abide by these policies and expectations, you risk losing the opportunity to participate further in the course.
- The standards and requirements set forth in this syllabus may be modified at any time by the course instructor. Notice of such changes will be by Canvas announcement or by email.
- I will conduct this class in an atmosphere of mutual respect. I encourage your active participation in class discussions. Each of us may have strongly differing opinions on the various topics of class discussions. The conflict of ideas is encouraged and welcome. The orderly questioning of the ideas of others, including mine, is similarly welcome. However, I will exercise my responsibility to manage the discussions so that ideas and arguments can proceed in an orderly fashion.
- This 3-credit course requires 3 hours of classroom or direct faculty instruction and 6 hours of out-of-class student work each week for approximately 15 weeks. Out-of-class work may include but is not limited to: lab projects, assignments, mini-assignments, and readings.

Projects

- Documentation/Network Mapping
- Windows OS Hardening
- Linux OS Hardening
- Firewall
- Network Intrusion Detection + Centralized Logging

Labs

- Initial Network Threat Assessment
- PowerShell Scripting
- Bash Scripting
- Windows Malware Identification
- Linux Malware Identification
- PLC Security
- Red Team Basics

Assignments

- [HackTheBox Sherlock - Brutus](#)
- SSH Rules
- Detecting Active Users (Linux)
- Detecting Active Users (Windows)

Course Materials

- Reliable Internet Access
- [HackTheBox Labs](#) Account
- Blue Team Field Manual (BTFM) Version 1.2
- Red Team Field Manual (RTFM) Version 2

Access to AWS Instances

- Under the Files section of the Canvas page there will be a folder with your first and last name. This folder will contain your SSH private keys for accessing the AWS instances.
- Your username on all machines will be in the format **{firstname}.{lastname}** and each student will only have access to their own private key folder.

Grading Policies

- Projects: 50%
- Labs: 30%
- Assignments: 20%

Late Work Policy

- Late work will be accepted up to one week after the initial due date. For example, if an assignment is due on a Friday at 11:59pm, late work will be accepted until 11:59pm on the following Friday.
- Each day an assignment is late will receive a 5% deduction in grade for the assignment.
- If you have extenuating circumstances and must submit an assignment late, please reach out to me directly via email.

Disability Accommodations

- Students in this course seeking accommodations to disabilities must first consult with the Office of Disability Services and follow the instructions of that office for obtaining accommodations.

Non-Discrimination

- All students and the instructor are expected to engage with each other respectfully. Unwelcome conduct directed toward another person based upon that person's actual or perceived race; color; religion (including belief and non-belief); sex; sexual orientation; gender identity; age; national origin; physical or mental disability; veteran status; genetic information; or for any other reason, may constitute a violation of University Policy 501, Nondiscrimination. Any student suspected of engaging in such conduct will be referred to the Office of Civil Rights & Title IX.

Civil Rights and Title IX

UNC Charlotte is committed to maintaining an environment conducive to learning for all students and a professional workplace for all employees. The University takes active measures to create or restore a respectful, safe, and inclusive environment for community members that is free from discrimination, discriminatory harassment, and interpersonal violence. If you (or someone you know) has experienced any of these incidents, know that you are not alone. UNC Charlotte has staff members trained to support you in navigating campus life,

accessing health and counseling services, providing academic and housing accommodations, helping with civil protective orders, and more.

Please be aware that all UNC Charlotte employees, including faculty members, are expected to relay any information or reports of discrimination, discriminatory harassment, or sexual and interpersonal misconduct they receive to the Office of Civil Rights and Title IX. This means that if you tell me about a situation involving these matters, I am expected to report the information. Although I am expected to report the situation, you will still have options about how your case will be handled, including whether or not you wish to pursue a formal complaint. Our goal is to make sure you are aware of the range of options available to you and have access to the resources you need.

If you wish to speak to someone confidentially, you can contact the following on-campus resources, who are not required to report the incident to the Office of Civil Rights and Title IX: (1) Center for Counseling and Psychological Services (CAPS) (caps.charlotte.edu, 7-0311); or (2) Student Health Center (studenthealth.charlotte.edu, 7-7400). Additional information about your options is also available at civilrights.charlotte.edu under the “Students” tab.

Course Material Copyright Notice

- HackTheBox Labs, the Blue Team Field Manual (BTFM), and the Red Team Field Manual (RTFM) are copyright of their respective creators/owners, not myself.

Academic Integrity

- All students are required to read and abide by the Code of Student Academic Integrity. Violations of the Code of Student Academic Integrity, including plagiarism, will result in disciplinary action as provided in the Code.

Definitions and examples of plagiarism are set forth in the Code and on the [Student Accountability & Conflict Resolution website](#). The Code is available from the Dean of Students Office or online at legal.charlotte.edu/policies/up-407. Additional resources are available on the [Student Accountability & Conflict Resolution website](#).

- Violation of these syllabus policies may result in appropriate academic penalties, including reduction of grade in the relevant assignment, project, test, or exam. If violation of these syllabus policies also implicates the Code of Student Academic Integrity because of alleged [academic misconduct](#), I will follow the [process outlined in the Code](#) to address such cases.
- Students are not permitted to use any form of generative AI, such as ChatGPT, in any case in regards to this course.

Resources

It is common for college students to experience challenges that may interfere with academic success such as academic stress, sleep problems, juggling responsibilities, life events, substance misuse concerns, relationship concerns, or feelings of anxiety, hopelessness, or depression. If you or a friend is struggling, we strongly encourage you to seek support. Helpful, effective resources are available on campus at no additional cost.

- Visit the Counseling and Psychological Services (CAPS) website at caps.charlotte.edu for information about the broad range of confidential on-campus mental health services, online health assessments, hours, and additional information.
- Call CAPS at (704) 687-0311 if interested in scheduling an appointment with a counselor. After-hours crisis support is also available through this phone number.
- Contact the Center Wellness Promotion at (704) 687-7407, by email at wellness@charlotte.edu or visit the website at wellness.charlotte.edu for more information on how to develop healthy attitudes and behaviors as it relates to relationships, mental health, alcohol, tobacco, or other drugs and sexual health.

UNC Charlotte defines "basic needs" as those needs that, when unmet, can hinder students' ability to focus on and successfully complete their academic studies. Basic needs include food security, housing security, transportation, health and wellbeing, technology, and child care. Any student who experiences difficulty in one or more of these areas is urged to contact the Student Assistance and Support Services (SASS) Office for support with navigating campus and community resources. Students can also consult the Niner Needs website for a list of helpful resources designed to address student needs.

FERPA Notice

In establishing University Policy 402, Student Education Records, UNC Charlotte adheres to a policy of compliance with the Family Educational Rights and Privacy Act of 1974, also known as FERPA, a federal law that affords students the following rights with respect to their education records. For details, see the FERPA Annual Notification posted on the Office of Legal Affairs website. All questions concerning this FERPA Annual Notification may be directed to the attention of the Office of the Registrar.