



UMass Cybersec Club GBM

Fall 2025



UMASS
CYBERSEC
CLUB



General Body Meeting

Tuesday, September 9th @ 7-8 PM

📍 LGRC A112 (CICS Event Space)

Who Are We?

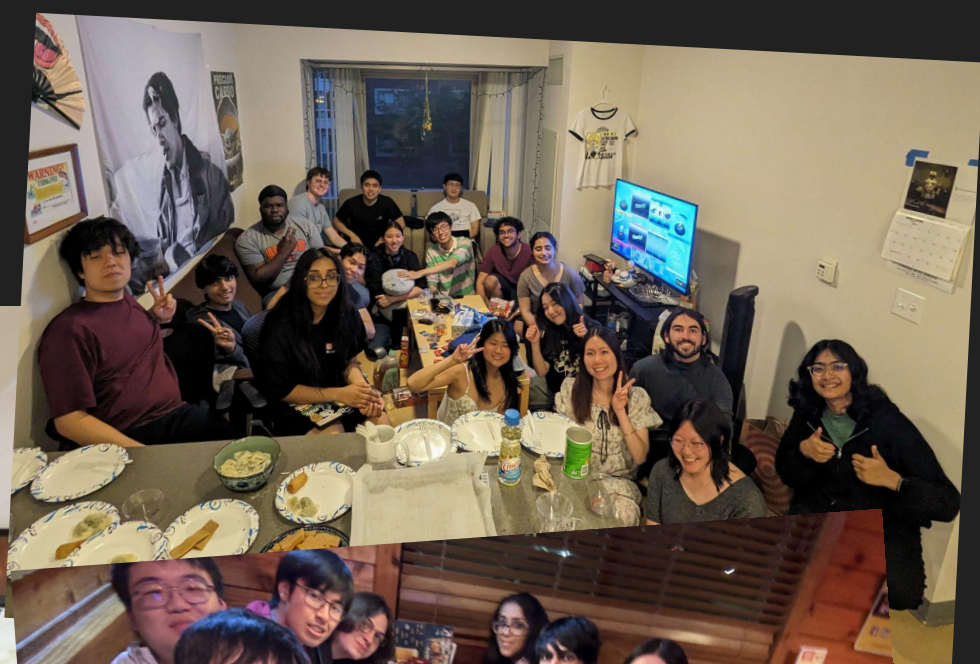
A Group of Students who promote
Cybersecurity education across UMass

We provide students with academic,
industry, and personal experience!

**Everything we
teach is for ethical
and academic
purposes!**



Meet our EBoard!



What is Cybersecurity?

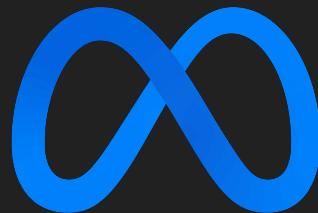
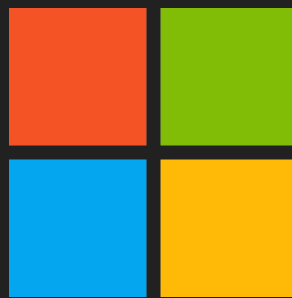
“Measures taken to protect a computer or computer system (as on the Internet) against unauthorized access or attack”

- Merriam-Webster

- **Offensive Security** - Evaluating the security of applications, devices, networks, and more
- **Defensive Security** - Creating rules, building detections, securing devices, and investigating how and why network intrusions occur

Why Cybersecurity?

1. Cybersecurity is **fun and rewarding**
2. You end up learning. A Lot.
3. You get to do **impactful work** that helps keep the world secure
4. The pay is nice :) **\$\$\$**



How do I learn
Cybersecurity through the
club?

Workshops!

- We have weekly workshops or talks every Tuesday @ 7pm in LGRC A112 & LGRC A104
 - At the start of the year, we'll have both intro and advanced workshops running concurrently - pick and choose what you're ready for!
- We present content then host hands-on labs for practice
- We'll also meet every Friday in the Makerspace to do more workshops, play Capture The Flag (CTF) competitions, work on projects, prep for competitions, and more!



Guest Talks

- We'll also have guest speakers from companies like **Fortinet, Meta, Dell,** and **Bugcrowd.**
- We're also planning to (hopefully) have a talk from **Low Level Learning!!**
🧠🔥🔥🔥 (date tbd)



Workshop Schedule

- T 9/16: **Intro to Unix / Linux Rootkits**
- F 9/19: **Intro to Pentesting**
- T 9/23: **Intro to Forensics / Malware**
- F 9/26: **Intro to Networking & Firewalls**
- T 9/30: **Intro to Web Exploitation / Adv Web (TBD)**
- F 10/3: **All forms of Web RCE**
- T 10/7: **Intro to Hardware Hacking / Adv Hardware (TBD)**

Tuesdays: Generally 7-8 PM LGRC 112 and/or Makerspace

Fridays: 4-7 PM CICS Makerspace, talks 5-6 (Come and go!)

Workshop Schedule con't

- F 10/10: **TBD**
- T 10/14: **Intro to Assembly / Intro to Binary Exploitation**
- F 10/17: **Advanced Binary Exploitation**



Tuesdays: Generally 7-8 PM LGRC 112 and/or Makerspace

Fridays: 4-7 PM CICS Makerspace, talks 5-6 (Come and go!)

Capture The Flag (CTFs)

- Our team, SavedByTheShell, plays CTFs every weekend & some Fridays
- These are Cybersecurity competitions that teach skills in:

Web Exploitation Reverse Engineering Forensics

Binary Exploitation Cryptography Miscellaneous areas

- We'll announce when we play these in Discord — playing them alongside others is the best way to learn!



UMASS
CTF 



MinutemanCTF 2025

- **Beginner-oriented**
 - Good way to learn “missing skills”
- UMass/Five College Exclusive event
- Capture The Flag event with a **Hackathon twist**
 - In-person
 - Talks & Workshops
- October 17-19
- **Plenty of opportunities to win prizes**
 - not just top teams!



Training Platform

- We host workshop labs and other training content on our own training platform
 - These are mini, guided challenges to supplement the information from our workshops - like a permanent CTF
 - New challenges every week until MinutemanCTF!
- Potential prizes (TBD) for the students with the most points!
- Visit <https://training.umasscybersec.org/> to sign up!
- **UMASS{F411_2025}**



The Cybersec Room - LGRT 212

- Awesome place to mess with cool hardware
 - Servers, lockpicks, arduinos, routers, printers, and more!
- Lab machines for hacking
 - Penetration testing
 - Game hacking
- Great studying spot
- Someone is always there to help you get started
- **Check #room-status to see if the room is open!**



Hacker Hours

- The room will be guaranteed to be open at a certain rotating time each week!
- A bunch of EBoard members will be in the room, so you can stop by and chat or learn!
- Times will be posted in the #room-status channel in Discord next week
- We'll announce when we're in the room outside of these posted times as well!

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
9:00 AM							
10:00 AM							
11:00 AM							
12:00 PM							
1:00 PM							
2:00 PM							
3:00 PM							
4:00 PM							
5:00 PM							
6:00 PM							

Collegiate Penetration Testing Competition (CPTC)

- Competition to simulate an offensive security evaluation of a corporation
- Professionals from top security companies provide meaningful real world experience
- Regionals run in Fall and Globals are in January
- Historically our team is world class, having placed 3rd in the world in 2023!
- Our team is preparing for regionals!



Collegiate Cyber Defense Competition (CCDC)

- Defensive Competition held during Spring
- Involves defending a simulated corporate network against industry professional hackers
- Great place to meet employers
 - Jobs and free merch!
- Applications open sometime next week!



RedCoat-Bluecoat

- New Competition starting this year!
- Finish and secure an incomplete corporate network - then square off against other teams!
- Modeled off of our collegiate competitions & mimicking real life networks and applications.
- Teams of 5
- Prizes included!

■ Interest Form released now, more details to come!



How do I get involved / learn?

- **Show up!**

- Hang out in the room
- Apply/compete in competitions
- Listen in on EBoard Meetings, 7-8 PM Mondays in the Cybersec Room
- Do projects with us or ask if we want help
 - Infrastructure, Talks, Bughunts, etc!



- **EBoard Applications open late Fall**
 - But, you can get involved with or without being EBoard!

Women in Cybersecurity (WiCyS)

- National Organization that aims to uplift and encourage minorities in cybersecurity especially women
- Scholarships for members/special conferences from parent organization
- Opportunities for free certification/challenges - keep posted!



Now For a Technical Demonstration ...



Disclaimer

- Hacking is **illegal** without proper consent and authorization.
- Do not use anything learned here to do something illegal!
- This is only for educational purposes to show you what **hacking** is truly capable of and what you'll be up against in the field.

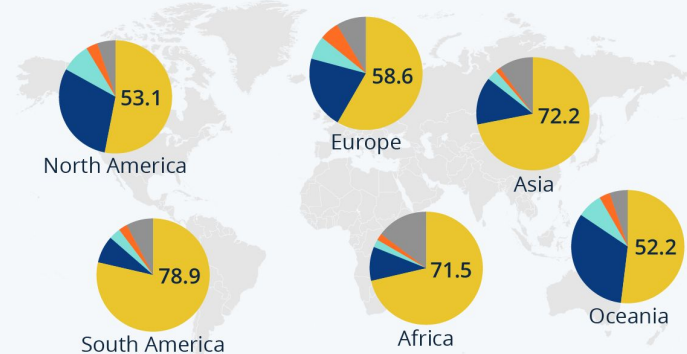
Google Chrome

- I will be exploiting a vulnerability in Google Chrome.
- Google Chrome is used by basically everyone.
- This exploit has been patched. However, unpatched exploits or **0 days** sell for \$100,000 +

Google's Chrome Has Taken Over the World

Browser market share in August 2023, by region (in percent)

● Chrome ● Safari ● Edge ● Firefox ● Other



* All platforms, including desktop, tablet, mobile.

Source: StatCounter



The Vulnerability

- The vulnerability allows me to corrupt memory in Chrome.
- Once I can corrupt memory, I can read and write at any part of the memory. This allows me to insert my own custom code into memory and execute it.
- The Final Result? A person **clicks a link** and they **get hacked!!!**

Enough Talk, It's Demo Time!

Thanks for joining us! Check us out on our links below.

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<https://training.umasscybersec.org/>

Newsletter



Discord



Twitter



Website



Questions?

How do I learn more?

How can I get involved?

When are you guys available?

Come Up & Ask!

Resources Posted in Discord

Newsletter



Discord



Twitter



Website

