

# UMass Cybersecurity Club General Body Meeting

Fall 2024



# General Body Meeting

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# Our Mission

- Promote the education of Cybersecurity across UMass
- Provide students with academic, industry, and personal experiences to learn and apply Cybersecurity skills

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

# What is Cybersecurity?

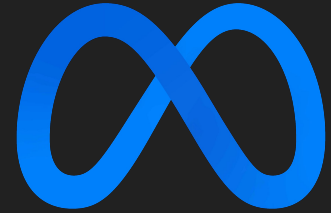
*“Measures taken to protect a computer or computer system (as on the Internet) against unauthorized access or attack”*

- Merriam-Webster

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

# Why Cybersecurity?

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



How do I learn  
Cybersecurity through the  
club?

# Tuesday Workshops!

- Every Tuesday @ 7pm in the ILC
- We present content then host **hands-on labs for practice**
- *Tuesdays will include our beginners series where we introduce various areas of security from zero to hero!*



# Friday Meetings

- **Location: LGRC A104 (CICS Makerspace Classroom)**
- **4-6 PM** will have:
  - Free-form block to practice Cyber Security
  - Work/help each other on projects
  - Project showcases
- **6-7 PM** will be a workshop/talk delving into more advanced sections of previously covered topics



**You do not have to stay the whole time! Come to whichever portion interests you (or both).**



# Guest Talks

- Companies like [Meta](#), [KPMG](#), [Caesar Creek](#), [Interrupt Labs](#) also visited to give talks and recruit for security positions
- Last year, we had a talk series from security researcher [OxTib3rius](#) (60k followers on ~~Twitter~~ X.com)





FALL - 2024

# WORKSHOP SCHEDULE

**9/13**

Intro to CTF



**10/4**

Advanced Rev



**9/17**

Unix



**10/8**

Forensics



**9/20**

Over the Wire  
and Hack the Box



**10/11**

Advanced  
Forensics



**9/24**

Web



**10/15**

Crypto



**9/27**

Advanced Web



**10/22**

TBD



**10/1**

ASM / Rev



**10/25**

Minuteman CTF  
Kickoff!!



\* some events are TBD

# Collegiate Penetration Testing Competition (CPTC)

- Competition to simulate an **offensive security (ethical hacking) evaluation** of a company
- Professionals from **top security companies** provide meaningful real world experience
- Last year our team placed **third globally** out of over 100 schools!



# Why should you compete?

- Cybersecurity Jobs/Internships
  - Last year's team had people interning at places like **IBM, Meta, Microsoft**
  - Recruiters love seeing these types of competitions on resume
- Experience
  - Closest experience to real world offensive security for college students
  - Practical knowledge - technical and business/soft skills aspect
  - All expenses paid travel to different states

## +1 Qualifications:

Software development experience in core offsec languages such as go lang or python

Capture-the-flag, CCDC, **CPTC** or other security related competitions

# CPTC Recruiting 2024-2025

- Due to competition organizers moving the submission deadline on short notice:
  - Form: <https://forms.gle/4ejuZotuLYMWD7cW7>
  - Deadline: 9/11 at 7PM
- Check **#club-announcements** on Discord for full details

# Collegiate Cyber Defense Competition (CCDC)

- Competition we compete in every Spring semester
- Involves **defending a simulated corporate network** against **industry professional hackers**
- Our team got **third place** for our region in the past
- **Great place to meet employers**
  - Jobs and free merch!



# Hivestorm 2024



- Same Organizers as the cyberdefense competition (CCDC)
- Teams of 4 (+2 Alts)
- Virtual competition open to all students with no team limit per school - Great way to get experience!
- Auditing a simulated corporate network for security issues (like CCDC, but no active threats)
- Applications & More Info released this Friday! (Due Sept 27)
- Competition held Wednesday, October 16

# Capture The Flag Competitions (CTFs)

- Our team, SavedByTheShell, plays in CTFs online **every weekend**
- These are Cybersecurity competitions that teach skills in:
  - Web Exploitation
  - Reverse Engineering
  - Binary Exploitation
  - Cryptography
  - Forensics
  - Open source intelligence (osint)
  - Any miscellaneous areas!
- We'll announce when we play these in Discord at **#competition-announcements**
- Playing them alongside others and reading writeups is the best way to learn!



# Minuteman CTF

- **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 25-27 (Tentative)
- **Plenty of opportunities to win prizes** - not just top teams!



# Training Platform

- <https://training.umasscybersec.org/>
- Hosts various **guided mini-challenges** related to workshops and MinutemanCTF
- For the next month, we will also add introductory to medium difficulty challenges to the platform almost every Friday
  - **These challenges will reappear in MinutemanCTF!**



# The Cybersec Room - LGRT 212

- Great way to talk to and learn from experienced members in our club
- Get access to hardware (IOT and consoles) and “powerful” servers
- Great place to study and get work done



# Hacker Hours

- The room will be guaranteed to be open at certain times
- At least 1 EBoard member will be in the room, so you can stop by and learn from them
- Times will be posted at **#room-status** channel on Discord
- We'll also announce when we're in the room outside of these posted times as well! (Which is often)

	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							█

# What is WiCyS?

## Women in Cybersecurity

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.

Workshops/Possible CTF in the Spring.



First GBM is Thursday, Sept 12 6-7PM LGRC A104A!



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

UMASS{F411\_2024}

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

Newsletter

Discord

Twitter

