DISCLAIMER

• This group is going to be run as a beginner’s course in cybersecurity.

• You do not need to have any sort of previous experience to be able to follow the happenings here, just be familiar with certain computer science terms. (will make a google spreadsheet for definitions)

• I am not a professional

• Information will be collected from multiple sources on the internet. (will be cross-referenced with a professor for legitimacy)
TRIVIA

• Currently there is a 0% unemployment rate in cyber security

• Cybercrime amounted to $3 trillion last year in loses, $6 trillion predicted annually by 2021. $1 trillion cumulatively over the next five years - from 2017 to 2021.

• The number of cyber attacks is going UP not down. Though white hat hackers continue to improve, the total number of cyber attacks doubled in 2017.

• 91% of cyber attacks in 2017 started with a phishing email.

• Mortgage companies are the #1 target

• Financial organizations are the biggest targets of cyber attacks

• 93% of breaches could have been avoided
WHAT DO CYBERSECURITY PROFESSIONALS DO?

• Cybersecurity experts use their skills and knowledge to prevent attacks and keep systems and data safe.
• They look at preventing, identify, and isolate all threats.
• Create and update future defense models. Defense in Depth (DiD)
CYBERSECURITY OBJECTIVES

• Confidentiality or secrecy means that only authorized people should be able to access or read specific computer system data. (Credit card data, access codes, etc)

• Integrity means that only authorized people should have the ability to use or modify systems and data. (hacking your facebook, admin rights, etc)

• Availability means that authorized people should always have access to their systems and data. (5xx Server Error, bad gateway, etc)

Also sometimes called the AIC triad
https://www.youtube.com/watch?v=ULGILG-ZhO0
WHAT TO EXPECT FROM THIS GROUP

“Offense is the Best Defense”

How to Hack a system

- types of malware/viruses and how to deal with them
- Building foundation in Bug bounties
- Simulation of Defense models
- Conventions of pentesting
SQL is a domain-specific language used in programming and designed for managing data held in a relational database management system, or for stream processing in a relational data stream management system.

https://www.youtube.com/watch?v=_GzE99AmAQU
REFERENCES

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• https://www.myabt.com/blog/7-of-the-most-interesting-facts-about-cyber-security

• https://www.youtube.com/watch?v=bPVaOIJ6ln0&list=PL8dPuuaLjXtNIUrzyH5r6jN9ullgZBpdo&index=32

• https://www.youtube.com/watch?v=ooJSgsB5fIE

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