CYBERSECURITY Semester 2

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Threats and Vulnerabilities

Cyber Threats

- Potential dangers targeting computer systems, networks, or data
- Aim to steal, disrupt, or damage data and operations
- Ex. malware, phishing, ransomware, hacking

Cyber Vulnerabilities

- Weaknesses or flaws in systems, software, or networks
- Exploitable by cyber threats
- Causes: outdated software, weak passwords, unpatched security gaps, misconfigurations



Importance of Learning Cyber Threats and Vulnerabilities

- Identifies potential risks and weaknesses attackers could exploit
- Enables the creation of effective defenses, including:
 - Secure systems
 - Preventive measures
 - Incident response plans
- Protects sensitive data and ensures network integrity
- Essential for building comprehensive and effective cybersecurity strategies



Some Free and Not Free Resources

Free:

- TryHackMe
 - Offers hands-on cybersecurity training through gamified real-world labs, suitable for beginners
- SANS Cyber Aces Online

Provides a free online course teaching core concepts of information security systems

- Cybrary
 - Offers a wide range of free cybersecurity training resources and courses

Have to Pay:

- Simplifearn Cyber Security Expert Masters Program
 A 4-month program priced at \$2,5992
- CompTIA Security+ 701

 A 2-month course available for \$1,2002
- Antisyphon Training

Offers pay-what-you-can courses, with additional benefits like cyber range access for higher payments