

# CYBERSECURITY (CYS)

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**CYS 101 - Introduction to Cybersecurity, 3 credits.**

In today's world, no one is safe from cyber-attacks, but everyone can be prepared. This course will teach you how malicious actors use social skills and technology to facilitate cyber attacks and provide you with the tools and information you need to defend against those attacks. This online class has optional live sessions. (RIZE Course: CYS I - Introduction to Cybersecurity).

**Frequency:** *Every Semester*

**CYS 201 - Cybercrime and Governance, 3 credits.**

Cybercrime is one of the biggest threats companies face every day. In this course, you will get a firsthand look at the methods used to commit cybercrimes. You will also learn how governments detect, investigate, and stop these crimes, and become familiar with the laws and policies in place to deter cybercriminals. This online class has optional live sessions. (RIZE Course: CYS II - Cybercrime and Governance).

**Frequency:** *Every Year - Second Semester*

**Prerequisites:** CYS 101

**CYS 230 - Modern Cybersecurity, 3 credits.**

Cybersecurity must keep pace with changing and evolving trends. In this class, you will learn about the changing landscape of cybersecurity, emerging mobile technologies that are likely to be targeted, and new forms of cyber-attacks being launched. By the end of the course, you will be able to implement the most up-to-date practices in cybersecurity to protect against attacks. This online class has optional live sessions. (RIZE Course: CYS III - Modern Cybersecurity).

**Frequency:** *Every Year - First Semester*

**CYS 350 - Network and Systems Security, 3 credits.**

Even the strongest systems can be vulnerable to cyber-attacks. As a result, jobs in cybersecurity are rapidly expanding as companies look to secure their digital assets. This course will teach you how to secure those assets by identifying and fixing potential security vulnerabilities. By the end of the course, you will be able to identify and remedy common network and systems vulnerabilities. This online class has optional live sessions. (RIZE Course: CYS IV - Network and System Security).

**Frequency:** *Every Year - Second Semester*

**CYS 450 - Cyber Forensics, 3 credits.**

When cybercrimes happen, you need to know how to respond. This course examines the tools and techniques used to perform cyber forensics and conduct investigations into cybercrimes. By the end of the course, you'll be able to gather and analyze important digital evidence and gain skills in analyzing cybercrime that are in demand. This online class has optional live sessions. (RIZE Course: CYS V - Cyber Forensics).

**Frequency:** *Every Semester*

**Prerequisites:** (CYS 101 and CYS 201) or CSC 445

**CYS 475 - Ethical Hacking, 3 credits.**

To stop a hacker, you need to be able to think like a hacker. In this course, you will learn hands-on techniques for attacking and penetrating networks and systems. You will be prepped with tools to launch these offensive tactics, and then complete a hands-on project where they are asked to ethically hack a real system. This online class has optional live sessions. (RIZE Course: CYS VI - Capstone - Ethical Hacking).

**Frequency:** *Every Semester*

**Prerequisites:** CYS 450