

»» Course Overview

In the Cybersecurity course, students will learn about the practice of protecting networks, systems, and programs from digital attacks. They will better understand the aim of these attacks, such as destroying information, extorting money and resources, or disrupting business operations. They will learn about the challenges and opportunities that implementing cybersecurity measures can present. As attackers become more innovative, it is more important than ever to have effective cybersecurity channels in place to counter them. Students will learn about countermeasures and role recovery and their integral function in the cybersecurity realm. Additionally, students will learn what makes certain networks and systems more vulnerable to attacks. They will become adept at identifying potential viruses, worms, threats, and malware. The Cybersecurity course acts as a foundation on which to build extensive knowledge about threats to digital security.

»» Course Outline by Module

Module 1	Introduction to Cybersecurity
Module 2	The Basics of Cybersecurity Part I
Module 3	The Basics of Cybersecurity Part II
Module 4	Intrusion and Intrusion Detection Systems Part I
Module 5	Intrusion and Intrusion Detection Systems Part II
Module 6	Intrusion Prevention
Module 7	Social Engineering & Fundamental Security Design Principles
Module 8	Careers in Cybersecurity

»» Course Elements

 Video Instruction

 Interactives

 Reading

 Projects

 Reflections

 Concept Checks

 Quizzes and Exams



[Course Preview Video](#)

»» Instructional Components

Pointful Education Courses are structured in a consistent, research-based format utilizing multiple pedagogical concepts such as Understanding by Design, Growth Mindset, and Video and Project-based learning. Through the use of these pedagogical concepts, Pointful Education maintains a consistent and engaging course structure that supports student-centered learning.

»» Course Materials

None Required.