

Earn a certificate in Cybersecurity Fundamentals at Portland Community College



- Specialize in cybersecurity while learning about computing
- Increase your understanding of robust cyber defense technology
- Utilize computer technology to address information system needs with security in mind
- Analyze common security vulnerabilities & apply appropriate security controls

Earn a certificate in one year – 28 credits

Hands-on labs and lecture; classroom and/or web-based

Apply at pcc.edu/enroll – free application, no special admission requirements

Contact Michele Maxwell, Advisor, to get started: michele.maxwell@pcc.edu

Certificate courses are mapped to knowledge units of the National Security Agency & Department of Homeland Security

Portland Community College is an Affirmative Action,
Equal Opportunity Institution.
If you experience disability related barriers or anticipate a
need for accommodation see
www.pcc.edu/about/accessibility



Portland Community College

Cybersecurity Fundamentals Certificate classes

Offering a foundation in cybersecurity skills and knowledge in the field of Information Technology. The courses and content in this certificate represent the cybersecurity skills deemed important by the U.S. government

CIS 120 Computer Concepts I

Introduces computing fundamentals from older, mature technologies through recent and emerging technologies. Utilizes key applications, such as word processing, spread sheet, database, & presentation software, to solve realistic problems. Explores the benefits & risks of the online environment. 4 credits.

CIS 122 Intro. to Programming Logic

Covers the logic of programming & how to break problems down into algorithmic solutions. Includes problem solving, basic logic constructs, testing & debugging programs, modular programming, & secure coding. Emphasizes development of secure, well-designed software projects. 4 credits.

CIS 140M Operating Systems I: Microsoft

Introduces Microsoft operating systems administration including installation, configuration, & management. Covers command line interface & GUI tools to organize, manage & maintain the file system. Introduces users, groups, printing, profiles, policies & the registry. 4 credits.

CS 140U Introduction to UNIX

Introduces the UNIX/Linux operating system, including: task scheduling & management, memory management, input/output processing, internal & external commands, shell configuration, & shell customization. Explores the use of operating system utilities such as text editors, electronic mail, file management, scripting, & C/C++ compilers. Discusses trends in UNIX/Linux, including use of graphical user interfaces. 4 credits.

CIS179 Data Communications Concepts I

Provides basic concepts of data communications, networking & connectivity. Explores hardware, connectivity, signaling, addressing, network topologies, communication protocols, network designs, switching, management, TCP/IP protocols, security & standards with emphasis on the OSI reference model. 4 credits.

CIS 189 Wireless Security

Introduces wireless security intrusion, policies, tools, and solutions. 4 credits.

CIS 284C Cybersecurity Concepts

Provides an introduction to cybersecurity. Explores security trends, vulnerabilities, threats to those vulnerabilities, & current techniques & tools used to fortify network defenses. Examines legal issues associated with information security, as well as how those issues are addressed within the context of an organization. 4 credits.