

Hagerstown Community College Master Syllabus

IST 160: Introduction to Security Fundamentals

Course Information

IST160: Introduction to Security Fundamentals

3 Credits

Spring 2019

Tuesday from 8:30 to 9:45 a.m.

Room STEM 109/110

Instructor Information

Course Description

This course is in hybrid format and is a first course in the fundamentals of information, computer, and network security. The course discusses common security issues, identifies methods of assessing systems to identify critical data, and presents tools and techniques for securing computers and networks. Course objectives map to the CompTIA Security+ Exam SY0-501 and include general security concepts, communication security, infrastructure security, basics of cryptography and operational/organizational security. Prerequisite: CYB101 or CSC102, or consent of TCS Division. Semesters offered: As needed. Three credits.

Textbook and Course Materials

TestOut Security Pro SY0-501. TestOut. ISBN: 978-1-935080-44-2.

Student Learning Outcomes

Reflecting the latest trends and developments from the information security field, this course provides a complete introduction to practical network and computer security and maps to the CompTIA Security+ SY0-501 Certification Exam. The course covers the fundamentals of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography. Lessons includes topics, such as psychological approaches to social engineering attacks, Web application attacks, penetration testing, data loss prevention, cloud computing security, and application programming development security.

Definition of Credit Hour: Classroom Courses

To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute academic hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours in the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit. For most classes, students should expect to complete at least 2 hours of coursework outside of class for each hour of in-class coursework.

Hybrid Class:

Classwork type	Direct Faculty Instruction In-class 18.5 hours required	Student Work Out of Classroom 94 hours required
In-class lecture, activities and discussion	18.5 hours	
TestOut Activities: Videos, demonstrations, reading assignment materials, practice exams		45 hours
Quizzes		12 hours
Labs		10 hours
Domain Exams		18 hours
Homework Assignments		8 hours
Presentation Preparation		5 hours
Cumulative Final Exam	Included in lecture time	10 hours
Total	18.5 hours	108 hours

Services for students with disabilities: Students may receive reasonable accommodations if they have a diagnosed disability and present appropriate documentation. Students seeking accommodations are required to contact the Disability Support Services (DSS) office as early as possible. Students may contact a DSS staff member for an appointment at dss@hagerstowncc.edu or at 240-500-2530.