

Hagerstown Community College
OFFICIAL MASTER SYLLABUS DOCUMENT

COURSE: IST 160 Information Security Fundamentals 3 credits

INSTRUCTOR: **SEMESTER/YEAR:** Fall 2016

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 SY0-401 and include general security concepts, communication security, infrastructure security, basics of cryptography and operational/organizational security. Prerequisite: IST 102 or consent of TCS Division. Semesters offered: As Needed.

TEXTBOOKS: Security+ Guide to Network Security Fundamentals, 5th edition. Mark Ciampa, Course Technology. ISBN- 13: 978-1-305-09391-1.
LabSim for CompTIA’s Security+ Exam SY0-301. LabSim Library. ISBN: 978-1-935080-40-4.

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+ SY0-401 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.

TOTAL HOURS OF COURSEWORK:

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 within 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 do at least 2 hours of coursework outside of class for each hour of in-class coursework. What does this mean for you – since this is a three credit hybrid class presented over a 15 week period you would work on this class 9 academic hours per week including class time.

Hours Required	Topic Out of class	Topic In Class
35	Reading of textbook (15 Chapters)	
50	NCL Discussion, Practice, Exams	
40	LabSim Assignments (15)	
15	Quizzes Exam & Prep	
18	CompTIA Security+ Domain Exams (6)	

