

Hagerstown Community College
OFFICIAL MASTER SYLLABUS DOCUMENT

COURSE: CYB 101 Introduction to Cyber Security - 3 credits

INSTRUCTOR:

SEMESTER/YEAR: Spring 2018

COURSE DESCRIPTION: In this course, students are expected to become familiar with security's core concepts, terminology, technologies and skills. Introduction to Cyber Security is a beginning guide for anyone interested in computer security. Major security topics such as vulnerability assessment, virus attacks, hacking, spyware, network defense, passwords, firewalls, VPNs and intrusion detection are covered. Crucial issues from industrial espionage to cyber bullying are discussed. Additionally, students are expected to learn the latest computer attacks and counter measures. Semesters offered: Fall and Spring. 3 credits.

TEXTBOOK: Fundamentals of Information Systems Security Third Edition, Kim/Solomon, Jones and Bartlett, 2016. ISBN: 978-1-284-11645-8

STUDENT LEARNING OUTCOMES:

- Think critically
- Communicate effectively with both verbal and written forms
- Identify the major threats to a network system and assess the risks
- Evaluate best practices in security concepts to maintain confidentiality, integrity and availability of computer systems

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 this particular class, a 15-week 3 credit class the average student would expect to work 9 fifty-minute "academic" hours per week. Some students may need more and some students may need less.

Lecture class

Activity	Direct Faculty Instruction In-class 37.5 h required	Student Work Out of Class 75 h required
In-class "lecture"	37.5 h	
In-class activities/assignments	Included in lecture time	
Reading of textbook (15 chapters)		20 h
Quizzes (14)		16 h

Activity	Direct Faculty Instruction In-class 37.5 h required	Student Work Out of Class 75 h required
Moodle assignments (8)		14 h
Presentation and preparation	Included in lecture time	8 h prep
NetLab assignments (5)		7 h
Cumulative final exam (Academic Testing Center)* * may be given in class during finals week.	Included in lecture time	10 h exam prep
Total Hours	37.5 hours	75 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 dds@hagerstowncc.edu or at 240-500-2530