

# Hagerstown Community College Master Syllabus

## CYB 101: Introduction to Cybersecurity

### Course Information

CYB 101: Introduction to Cybersecurity

3 Credits

Spring 2019

January 7 through April 29, 2019

Monday and Wednesday from 8:30 to 9:45 a.m.

Room STEM 109/110

### Instructor Information

### 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 and Course Materials

*Fundamentals of Information Systems Security Third Edition.* (Kim/Solomon 2018). Jones and Bartlett.  
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

### 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.

Classwork type	Direct Faculty Instruction In-class <b>37.5 hours required</b>	Student Work Out of Classroom <b>75 hours required</b>
In-class lecture and discussion	37.5 hours	
Reading		20 hours
Quizzes		16 hours
Moodle assignments		14 hours
NetLab assignments (5)		7 hours
Presentation Preparation		8 hours
Cumulative Final Exam	Included in lecture time	10 hours
<b>Total</b>	<b>37.5 hours</b>	<b>75 hours</b>

**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](mailto:dss@hagerstowncc.edu) or at 240-500-2530.