Hagerstown Community College
OFFICIAL MASTER SYLLABUS DOCUMENT

COURSE: IST 154 NETWORKING BASICS-3 credits

INSTRUCTOR: **SEMESTER/YEAR:** Spring 2018

COURSE DESCRIPTION: Students become familiar with networking terminology and concepts. This course introduces the fundamental building blocks that form a modern network, such as protocols, topologies, hardware, and network operating systems. It then provides coverage of the most important concepts in contemporary networking, such as client/server architecture, TCP/IP, Ethernet, wireless transmission, and security. A current network operating system is used to examine managing users, groups and devices. Additional networking operating systems are surveyed. Also included are discussions of the OSI model, subnets, troubleshooting, and networking integrity. Course objectives map to the CompTIA Net+ Exam.

TEXTBOOK: TestOut Network Pro N10-005. Testout, ISBN: 978-1-935080-43-5.

STUDENT LEARNING OUTCOMES:
- Demonstrate knowledge of network architecture through drawing and site assessment through written documentation
- Install, configure, use and manage TCP/IP on both wired and wireless Peer-to-peer networks
- Use critical thinking skills in troubleshoot problems in an existing network environment
- Prepare for CompTIA's vendor-independent networking certification exam, Network +

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.

Hybrid class

Hours Required	Topic
52	Reviewing TestOut chapters (14 Chapters)
7.5	Netlabs (4)
25	HOPs
25	Exams & Preps
10	Domain Exams (5)
18	Classroom

Online class

Hours Required	Topic
52	Reviewing TestOut chapters (14 Chapters)
7	Chats (5-7) or videocasts or forums
10	Netlabs (10)
15	HOPs (8)
3	HOP 2A/making cable/on campus or under an approved proctor
25	Exams & Preps
10	Domain Exams (5)

F2F

Hours Required	Topic
37.5	Classtime; HOPs
52	LabSim TestOut chapters (14 Chapters) (Exams & Labs)
10	On-Line HOPs
4	Netlabs (3)
10	Domain Exams (5)
25	Exams (includes study time)

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