

# Hagerstown Community College Master Syllabus

## IST 154: Networking Basics

### Course Information

Course #: IST 154 NETWORKING BASICS

3 Credits

Semester Year: Spring 2019

### Instructor Information

Instructor: Karen Weil-Yates

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Office: ATC 204

Office hours: M 4 – 5:30; T/Th 11:00am – 1:00pm 1

### 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 and Course Materials

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+

### 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.

F2F

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, discussion, HOPs	37.5 hours	
Reading, completing TestOut assignments (14 Chapters)		40 hours
On-line HOPs		10 hours
Domain Exams		15 hours
Exams (Transcender) (includes studying)		10 hours
<b>Total</b>	<b>37.5 hours</b>	<b>75 hours</b>

Hybrid

Classwork type	Direct Faculty Instruction In-class <b>18.5 hours required</b>	Student Work Out of Classroom <b>94.5 hours required</b>
In-class lecture, discussion, HOPs	18.5 hours	
Reading, completing TestOut assignments (14 Chapters)		40 hours
HOPs		29.5 hours
Domain Exams		15 hours
Exams (Transcender) (includes studying)		10 hours
<b>Total</b>	<b>18.5 hours</b>	<b>94.5 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.