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
Phone: (240) 500-2446
Email: kdweil-yates@hagerstowncc.edu
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

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

<table>
<thead>
<tr>
<th>Classwork type</th>
<th>Direct Faculty Instruction</th>
<th>Student Work Out of Classroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-class lecture, discussion, HOPs</td>
<td>37.5 hours</td>
<td></td>
</tr>
<tr>
<td>Reading, completing TestOut assignments (14 Chapters)</td>
<td>40 hours</td>
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<tr>
<td>On-line HOPs</td>
<td>10 hours</td>
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<tr>
<td>Domain Exams</td>
<td>15 hours</td>
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<tr>
<td>Exams (Transcender) (includes studying)</td>
<td>10 hours</td>
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<td><strong>Total</strong></td>
<td><strong>37.5 hours</strong></td>
<td><strong>75 hours</strong></td>
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### Hybrid

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</thead>
<tbody>
<tr>
<td>In-class lecture, discussion, HOPs</td>
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<td>Reading, completing TestOut assignments (14 Chapters)</td>
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<td>HOPs</td>
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<tr>
<td>Domain Exams</td>
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<td>Exams (Transcender) (includes studying)</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>18.5 hours</strong></td>
<td><strong>94.5 hours</strong></td>
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**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.