Course Prerequisites:

Internet Protocols (TCOM 509) and Advanced Internet Protocols (TCOM 529) are mandatory prerequisites for this course. These two courses cover the protocol theory that we will apply in this course using a hands-on approach.

Course Texts and Other Materials:

TCP/IP Illustrated, Volume 1: The Protocols (2nd Edition)
by Kevin R. Fall, W. Richard Stevens
ISBN: 978-0321336316

Red Hat Enterprise Linux 6 Installation Guide

Red Hat Enterprise Linux 6 Deployment Guide
vSphere Virtual Machine Administration

Wireshark User’s Guide
http://www.wireshark.org/docs/wsug_html_chunked/

Course Grading:

Homework/In-Class Exercises/Labs: 30%
Midterm: 30%
Final: 40%

The midterm and final will include material from lectures and class/lab discussions in addition to the required reading.

Blackboard:

All course material, announcements and grades will be posted on the class Blackboard page. Please check Blackboard at least once a week to make sure that you have the latest course information.

Labs:

Location: In-Class/GMU Telecom Lab
Students must be present to receive credit for labs.
Course Schedule:

Please note that the schedule may change as the semester progresses.

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/24</td>
<td>Introduction to the Linux Operating System</td>
<td>Red Hat Deployment Guide (RHDG)</td>
</tr>
<tr>
<td>2</td>
<td>1/31</td>
<td>VMware Overview Installing Linux as Virtual Machines Linux Desktop Overview</td>
<td>vSphere VM Admin. Guide; RHDG</td>
</tr>
<tr>
<td>3</td>
<td>2/07</td>
<td>Linux Command-Line Fundamentals Understanding the networking stack</td>
<td>RHDG</td>
</tr>
<tr>
<td>4</td>
<td>2/14</td>
<td>Packet Capturing</td>
<td>Wireshark</td>
</tr>
<tr>
<td>5</td>
<td>2/21</td>
<td>Remote Access: Telnet &amp; SSH</td>
<td>RHDG; OpenSSH website</td>
</tr>
<tr>
<td>6</td>
<td>2/28</td>
<td>Apache httpd: Web Server</td>
<td>RHDG; Apache website</td>
</tr>
<tr>
<td>7</td>
<td>3/07</td>
<td>Midterm</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>3/14</td>
<td>Spring Break – No Classes</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>3/21</td>
<td>TFTP &amp; FTP Server</td>
<td>RHDG; vsftpd website</td>
</tr>
<tr>
<td>10</td>
<td>3/28</td>
<td>DHCP Server</td>
<td>RHDG; dhcp man pages</td>
</tr>
<tr>
<td>11</td>
<td>4/4</td>
<td>Lab: TFTP, FTP &amp; DHCP</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>4/11</td>
<td>Postfix: SMTP Mail Server</td>
<td>RHDG; postfix homepage</td>
</tr>
<tr>
<td>13</td>
<td>4/18</td>
<td>Lab: Mail Server and Client</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>4/25</td>
<td>BIND: DNS Server</td>
<td>RHDG; Bv9ARM</td>
</tr>
<tr>
<td>15</td>
<td>5/02</td>
<td>Lab: DNS</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>5/09</td>
<td>Final</td>
<td></td>
</tr>
</tbody>
</table>

*** You cannot make up the exams and you must take the final during the scheduled timeslot -ABSOLUTELY NO EXCEPTIONS! - Coordinate your travel accordingly. ***

Academic Integrity:

The integrity of the University community is affected by the individual choices made by each of us. GMU has an Honor Code with clear guidelines regarding academic integrity. Three fundamental and rather simple principles to follow at all times are that: (1) all work submitted be your own; (2) when using the work or ideas of others, including fellow students, give full credit through accurate citations; and (3) if you are uncertain about the ground rules on a particular assignment, ask for clarification. No grade is important enough to justify academic misconduct.
Plagiarism means using the exact words, opinions, or factual information from another person without giving the person credit. Writers give credit through accepted documentation styles, such as parenthetical citation, footnotes, or endnotes. Paraphrased material must also be cited, using MLA or APA format. A simple listing of books or articles is not sufficient. Plagiarism is the equivalent of intellectual robbery and cannot be tolerated in the academic setting. If you have any doubts about what constitutes plagiarism, please see me.

Please note that any violation of the Honor Code will be immediately reported to Dr. Paris and the Honor Committee without exception.

**GMU Links:**

http://catalog.gmu.edu
http://universitypolicy.gmu.edu

**Accommodations for Disabilities:**

If you are a student with a disability and you need academic accommodations, please see me and contact the Office for Disability Services (ODS) at 993-2474, http://ods.gmu.edu. All academic accommodations must be arranged through the ODS.

**Other Resources:**

Writing Center: The GMU Writing Center is available to all students to assist in any written assignment. Please consult the following URL for more detailed information about the resources available to you as a student:
http://writingcenter.gmu.edu/index.php

University Libraries: The GMU University Library system is available to all students. Please consult the following URL for more detailed information about their resources: http://library.gmu.edu

**Other Reading Resources**

The OpenSSH website
http://www.openssh.org/

Apache HTTP Server Project
http://httpd.apache.org/

The vsftpd website
https://security.appspot.com/vsftpd.html

The Postfix Home Page
http://www.postfix.org/

BIND 9 Administrator Reference