CCRI Networking Technology III CSCO-1870-102 Spring 2011
LAN Switching & Wireless

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Office Hours: Room 218B. Tuesdays, Thursdays & Fridays 4:00-5:00 P.M
Class Sections: 102, Fridays 6:00PM-9:50PM, starts 1/28, ends 5/13

Instructional Material and Web Sites

<table>
<thead>
<tr>
<th></th>
<th>CCRI Lesson Web Site Internal</th>
<th>10.19.114.9 Exploration 3 Ver. 4.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>CCRI Lesson Web Site External</td>
<td>216.19.115.212 Exploration 3 Ver. 4.0</td>
</tr>
<tr>
<td>3</td>
<td>Cisco Academy Assessment Web Site</td>
<td><a href="http://cisco.netcad.net/">http://cisco.netcad.net/</a></td>
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Grading Policies

<table>
<thead>
<tr>
<th>Skills:</th>
<th></th>
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<tbody>
<tr>
<td>Journal-Entries</td>
<td>5%</td>
</tr>
<tr>
<td>Labs and Class Participation</td>
<td>10%</td>
</tr>
<tr>
<td>Case Study and Presentation</td>
<td>10%</td>
</tr>
<tr>
<td>Research Paper</td>
<td>10%</td>
</tr>
<tr>
<td>Practical Final</td>
<td>30%</td>
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Academic:

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<tr>
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<tbody>
<tr>
<td>Quizzes</td>
<td>15%</td>
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<tr>
<td>Final</td>
<td>20%</td>
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</table>

Book: (Optional)

LAN Switching and Wireless
CCNA Exploration Companion Guide

Publisher: Cisco Press
Author: Wayne Lewis.

Other Policies

1. The student expected to complete the On-Line lessons outside of class time.
2. All quizzes must be taken in class and will not be available from the student web site.
3. Late assignments will be penalized 20 points.
4. Assignments late more than one class period will not be accepted.
5. All assignments must be completed using a word processor.
6. Students are responsible to see the instructor about any work missed due to absence.
7. Students who miss a quiz must take the quiz within two classes of the original quiz date.
8. Students are expected to participate as a member of teams.
9. Students must pass both the Skills based portion in addition to the Academic portion of the curriculum to pass the course.
10. Student’s final grade can only raise one letter grade above the on-line final exam score based on other class assignments.
11. Students are allowed a **maximum** of three (3) re-takes of chapter quizzes per the semester.
12. All re-takes must be completed **prior** to the final exam, **without exception**.
# Networking Technology III - LAN Switching & Wireless

<table>
<thead>
<tr>
<th>Class</th>
<th>Lesson</th>
<th>Exam</th>
<th>Subjects</th>
<th>Labs/Projects</th>
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</thead>
<tbody>
<tr>
<td>Jan 28</td>
<td>1</td>
<td></td>
<td>Setup Academy account, go over syllabus</td>
<td>Lab</td>
</tr>
</tbody>
</table>
| 9/20  | 2 | | LAN Design  
1.1 Switched LAN Architecture  
1.2 Matching Switches to Specific LAN Functions | Lab 1.3.1  
Lab 1.3.2  
Lab 1.3.3 |
| Feb 4  | 2 | 1 | Basic Switch Concepts and Configuration  
2.1 Introduction to Ethernet / 802.3 LANs  
2.2 Forwarding Frames using Switches | Lab 2.5.1  
Lab 2.5.2 |
| Feb 11 | | | 2.3 Switch management Configuration  
2.4 Configuring Switch Security | Lab 2.5.3 |
| Feb 18 | 3 | 2 | Virtual Local-Area Networks (VLANs)  
3.1 Introducing VLANs  
3.2 VLAN Trunking  
3.3 Configure VLANs and Trunks | Project Assigned, Groups Formed  
Lab 3.5.1 |
| Feb 25 | | 3 | Troubleshoot VLANs and Trunks | Lab 3.5.2  
Lab 3.5.3 |
| March 4 | 4 | 3 | Virtual Trunking Protocol (VTP)  
4.1 VTP Concepts  
4.2 VTP Operation  
4.3 Configure VTP | Lab 4.4.1  
Lab 4.4.2  
Lab 4.4.3 |
| March 11 | 5 | 4 | Spanning-Tree Protocol (STP)  
5.1 Redundant layer 2 Topologies  
5.2 Introduction to STP  
5.3 STP Convergence | Lab 5.5.1 |
| March 18 | | | 5.4 PVST+, RSTP and Rapid PVST+ | Lab 5.5.2  
Lab 5.5.3 |
| March 25 | | | Spring Vacation  
Spring Vacation  
Spring Vacation  
Spring Vacation | |
| April 1 | 6 | 5 | Inter - VLAN Routing  
6.1 Inter - VLAN Routing  
6.2 Configuring Inter - VLAN Routing  
6.3 Troubleshooting Inter - VLAN Routing | Lab 6.4.1  
Lab 6.4.2  
Lab 6.4.3 |
| April 8 | 7 | 6 | Basic Wireless Concepts and Configuration  
7.1 The Wireless LAN  
7.2 Wireless LAN Security  
7.3 Configure Wireless LAN Access  
7.4 Troubleshooting Simple WLAN Problems | PT Lab 7.5.1  
PT Lab 7.5.2  
PT Lab 7.5.3  
Open Lab |
| April 16 | | 7 | | Open Lab |
| April 23 | | | Project Presentations | |
| April 30 | | | Final Skills Assessment | |
| May 6 | | | Final Skills Assessment | |
| May 13 | | | Final Exam | |