Lab – 2: Local Area Network

**X = ______________ = Your Router & Switch**

<table>
<thead>
<tr>
<th>R-X</th>
<th>Gig 0/0</th>
<th>To CORE Switch Port X</th>
<th>192.168.X.2</th>
<th>255.255.255.0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gig 0/1</td>
<td>To SW-X Port Gig 0/1</td>
<td>192.168.0.X</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>SW-X</td>
<td>VLAN 1</td>
<td>Switch Virtual Interface</td>
<td>192.168.0.100+X</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>Your PC</td>
<td>NIC</td>
<td>Your PC to SW-X</td>
<td>192.168.0.200+X</td>
<td>255.255.255.0</td>
</tr>
</tbody>
</table>

**Instructions:**

1. Your SEAT # is ___________________________ and your X = ___________________________.
2. Make a Patch Cable and attach the LABEL to the middle of the cable (like a flag).
3. Plug one end of a patch cable into the GRAY Patch Panel PORT # that is the same number as your Seat #. Plug the other end of the cable into PORT X of the SWITCH Console Patch Panel.
4. Next, plug one end of a patch cable into the RED Patch Panel PORT # (same as your Seat #). Plug the other end of the cable into PORT X of the ROUTER Console Patch Panel.
5. Then, plug a patch cable from GREEN Patch Panel (Port#=Seat#) to any CENTRAL Switch Port.
6. Configure your Router and Switch using your Configuration Checklist and the TABLE above.
7. Configure your PC’s Network Adapter as follows:
   a. IP Address: 192.168.0.200+X
   b. Subnet Mask: 255.255.255.0
   c. Default Gateway 192.168.0.X
   d. DNS: 147.70.101.102
   e. Plug your PC Network cable into the GREEN Keystone jack behind your monitor
8. Connect a patch cable from GIG 0/0 of your Router to CORE Switch Port number X.
9. Connect a patch cable from GIG 0/1 of your Router to your Switch.
10. Plug a CROSSOVER cable from your Switch to any Port on any CENTRAL Switch.
11. Ping all your devices on the Local Area Network, including IP Address: 192.168.0.254
1. Draw a diagram showing the actual cable connections of your part of the Network.
2. Provide brief written instructions so that another Student can set up your Network quickly.