<table>
<thead>
<tr>
<th>Week</th>
<th>Date Range</th>
<th>Udacity Lesson</th>
<th>Reading</th>
<th>Work Assigned</th>
<th>Work Due</th>
<th>Schedule Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>01/06/2019-01/12/2019</td>
<td>1 - Introduction</td>
<td>How To Read a Paper</td>
<td>Project 1 - VM Setup, Topologies, Simulating Networks</td>
<td></td>
<td>01/02 - Phase II Time Tickets 01/03-01/11 - Phase II Registration 01/07 - First Day of Classes 01/11 (4:00 PM) - Deadline for Registration/ Schedule Changes</td>
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<td></td>
<td></td>
<td>2 - Architecture and Principles</td>
<td>The Design Philosophy of the DARPA Internet Protocols</td>
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<tr>
<td>2</td>
<td>01/13/2019-01/19/2019</td>
<td>3 - Switching</td>
<td>End to End Arguments in System Design</td>
<td>Project 2 - Spanning Tree Protocol</td>
<td>Project 1 due 01/19 23:59 AOE</td>
<td>01/14 – Payment Deadline</td>
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<tr>
<td>3</td>
<td>01/20/2019-01/26/2019</td>
<td>4 - Routing</td>
<td>BGP Routing Policies in ISP Networks</td>
<td></td>
<td>Project 2 due 01/26 23:59 AOE</td>
<td>01/21 – Martin Luther King Jr. Day (Official Institute Holiday)</td>
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<tr>
<td>4</td>
<td>01/27/2019-02/02/2019</td>
<td>5 - Naming, Addressing, Forwarding</td>
<td>Are we there yet? 20 years of IPV6</td>
<td>Project 3 - Distance Vector Routing</td>
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<tr>
<td>5</td>
<td>02/03/2019-02/09/2019</td>
<td>5.1 - Router Design Basics</td>
<td></td>
<td></td>
<td>Project 3 due 02/09 23:59 AOE</td>
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<tr>
<td>5</td>
<td></td>
<td>5.2 - DNS</td>
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<tr>
<td>6</td>
<td>02/10/2019-02/16/2019</td>
<td>Review &amp; Test 1</td>
<td>Test 1 Preparation Questions</td>
<td>Weekly Discussion Threads</td>
<td>Test 1 Window: 02/10 - 02/16</td>
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</tr>
<tr>
<td>7</td>
<td>02/17/2019-02/23/2019</td>
<td>6 - Congestion Control and Streaming</td>
<td>CUBIC Congestion Control TCP Fast Open</td>
<td>Project 4 - TCP Fast Open</td>
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| 8    | 02/24/2019-03/02/2019    | 7 - Rate Limiting and Traffic Shaping | Sizing Router Buffers  
Controlling Queue  
Delay  
Project 5 - Congestion Control and Buffer Bloat | Project 4 due  
03/02 23:59 AOE | 03/07 - Schedule of Classes Available Online for all Summer Sessions |
| 9    | 03/03/2019-03/09/2019    | 8 - Content Distribution        |                                                                                       | Project 5 due  
03/09 23:59 AOE |                                                                                      |
| 10   | 03/10/2019-03/16/2019    | Review & Test 2                 | Test 2 Preparation Questions  
Weekly Discussion Threads  
Test 2 Window: 03/10 - 03/16 |                                                                                       | 03/13 4:00 PM - Withdrawal Deadline |
| 11   | 03/17/2019-03/23/2019    | 9 - Software Defined Networking  
9.1 - Programming SDNs | The Road to SDN: An Intellectual History of Programmable Networks  
Modular SDN Programming with Pyretic  
Project 6 - SDN Firewall |                                                                                       | 03/18-03/22 - Spring Break |
| 12   | 03/24/2019-03/30/2019    | 10 - Traffic Engineering        | Jellyfish  
Jellyfish Portland  
Project 6 due  
03/30 23:59 AOE |                                                                                       | 03/25 – Registration all Summer Sessions |
How Secure are Secure Interdomain Routing Protocols  
Project 7 - BGP Hijacking Attacks + Extra Credit Project Section |                                                                                       |                                                                                      |
| 14   | 04/07/2019-04/13/2019    | 11.1 - Internet Worms  
11.2 - Spam  
11.3 - Denial of Service Attacks | Hold-On: Protecting Against On-Path DNS Poisoning  
Crossfire Attack |                                                                                       |                                                                                      |
### Lesson Transcripts

Student-compiled transcripts for the videos can be found in Canvas under **Files**.

### Project Instructions

Projects will be released and turned in via Canvas. The project description, instructions for completion, and instructions for turn-in will be posted in the **Assignments** Section on Canvas.

### Test Preparation Question

Test preparation questions are ungraded. They are available through the Canvas under the **Files** section. Feel free to discuss these questions on Piazza with your fellow classmates. Solutions will be posted the week of their associated testing window to help you study the model answers.