# Networking Basics – COMP H1015: Learning Plan

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# Schedule (Subject to Change)

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| ***Dates*** | ***Week*** | ***Lecture Topic***  ***( Cisco Exploration )*** | ***CA Exam*** | ***Lab*** |
| 15 Sept | 1 | **Lecture 0**: Module Overview  **Lecture 1**:   * Chapter 1. Living in a Network Centric World |  | Lab 1:   * Lab safety tutorial * Cabling and cabling tools |
| 22 Sept | 2 | **Lecture 2**:  Chapter 2. Communicating over the Network | * + Chapter 1 | Lab 2:   * Topology Orientation * Building a small LAN |
| 29 Oct | 3 | **Lecture 3**:   * Chapter 3. Application Layer Functionality and Protocols | * + Chapter 2 | Lab 3:   * Using Packet Tracer * Using Wireshark to view PDUs |
| 6 Oct | 4 | **Lecture 4**:   * + - Chapter 4. OSI Transport Layer | * + Chapter 3   + Chapter 4 | Lab 4   * + TCP/IP Transport Layer Protocols Examination |
| 13 Oct | 5 | **Lecture 5:**   * OSI Network Layer | * + Chapter 5 | Lab 5   * + Examining Gateways and Routes |
| 20 Oct | 6 | **Lecture 6**   * Addressing the Network – IPv4 | * + Chapter 6 | Lab 6:   * + Ping   + ICMP   + Subnetting and Router configuration |

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| 27Oct | **Mid-Semester Break** | | | | |
|  | **Self Study**:   * Recap chapter 1 – 6 (repeat chapter exams if required) | |  |  |
| 3 Nov | 7 | **Lecture 7**:   * Data Link Layer | * Chapter 7 | | Lab 7   * Recap subnetting * Frame Examination |
| 10 Nov | 8 | **Lecture 8:**   * OSI Physical Layer | * Chapter 8 | | Lab 8:   * ARP * Switch Table |
| 17 Nov | 9 | **Lecture 9:**   * Ethernet | * Chapter 9 | | Lab 9   * How many networks? * Build a small lab topology |
| 24 Nov | 10 | **Lecture 10**:   * Planning and Cabling | * Chapter 10 | | Lab 10:   * Router Console sessions * Basic Device Configuration |
| 1 Dec | 11 | **Lecture 11:**   * Configuring and Testing the network | * Chapter 11 | | * **Preparation for Practical Exam: Putting it all together** |
| 8 Dec | 12 | Recap and Revision | * Recap 1 - 11 | | * **Practical Exam** |
| 15 Dec | 13 | Recap and Revision | * + - **Final Exam (Chapters 1 -11)** | | * + - **Practical Exam** |

# Books

Recommended Text

* Cisco Network Fundamentals, CCNA Exploration Companion Guide ISBN 1587132087
* Cisco Powerpoint Presentations: available on ITB Moodle
* CiscoNetwork Fundamentals, CCNA Exploration Labs and Study Guide ISBN 1587132036
* Cisco Online curriculum available through Cisco learning academy

# Module Assessment: 100% Continuous Assessment

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| **Assessment** | **Allocation** |
| 10 Chapter Exams @ 2% per exam | 20% |
| Online Practice Final Exam | 20% |
| Online Final Exam | 30% |
| Skills Exam | 30% |
| TOTAL | 100% |

# What if I fail and need to repeat?

**Note: Should you fail the module, to repeat it, you must repeat the online CA during Summer 2010 and from the 1st of September 2010 complete all other parts of CA to achieve a pass result.**