**CCNP Course Outline**

**CCNP Route (300-101)**

**Part I Fundamental Routing Concepts**

**Chapter 1 Characteristics of Routing Protocols**

**Chapter 2 Remote Site Connectivity**

**Part II IGP Routing Protocols**

**Chapter 3 IPv6 Review and RIPng**

**Chapter 4 Fundamental EIGRP Concepts**

**Chapter 5 Advanced EIGRP Concepts**

**Chapter 6 EIGRP for IPv6 and Named EIGRP**

**Chapter 7 Fundamental OSPF Concepts**

**Chapter 8 The OSPF Link-State Database**

**Chapter 9 Advanced OSPF Concepts**

**Part III Route Redistribution and Selection**

**Chapter 10 Route Redistribution**

**Chapter 11 Route Selection**

**Part IV Internet Connectivity**

**Chapter 12 Fundamentals of Internet Connectivity**

**Chapter 13 Fundamental BGP Concepts**

**Chapter 14 Advanced BGP Concepts**

**Chapter 15 IPv6 Internet Connectivity**

**Part V Router and Routing Security**

**Chapter 16 Fundamental Router Security Concepts**

**Chapter 17 Routing Protocol Authentication**

**CCNP Switch (300-115)**

**Part I Designing Campus Networks**

**Chapter 1 Enterprise Campus Network Design**

**Chapter 2 Switch Operation 2**

**Chapter 3 Switch Port Configuration**

**Part II Building a Campus Network**

**Chapter 4 VLANs and Trunks**

**Chapter 5 VLAN Trunking Protocol**

**Part III Working with Redundant Links**

**Chapter 6 Traditional Spanning Tree Protocol**

**Chapter 7 Spanning-Tree Configuration**

**Chapter 8 Protecting the Spanning Tree Protocol Topology**

**Chapter 9 Advanced Spanning Tree Protocol**

**Chapter 10 Aggregating Switch Links**

**Part IV Multilayer Switching**

**Chapter 11 Multilayer Switching**

**Chapter 12 Configuring DHCP**

**Part V Monitoring Campus Networks**

**Chapter 13 Logging Switch Activity**

**Chapter 14 Managing Switches with SNMP**

**Chapter 15 Monitoring Performance with IP SLA**

**Chapter 16 Using Port Mirroring to Monitor Traffic**

**Part VI Implementing High Availability**

**Chapter 17 Understanding High Availability**

**Chapter 18 Layer 3 High Availability**

**From the Library of Outcast**

**Part VII Securing Switched Networks**

**Chapter 19 Securing Switch Access**

**Chapter 20 Securing VLANs**

**Chapter 21 Preventing Spoofing Attacks**

**Chapter 22 Managing Switch Users**