Semester 1+2

Networking for Home and Small Businesses	Working at a Small-to-Medium Business or ISP
Set up a personal computer system, including the operating system, interface cards, and peripheral devices	Understand the structure of the Internet and how communication occurs between hosts
Plan and install a small network connecting to the Internet	Install, configure, and troubleshoot Cisco IOS devices
Troubleshoot network and Internet connectivity	Plan a basic wired infrastructure to support network traffic
Share resources such as files and printers among multiple computers	Configure a server to share resources and provide common Web services
Recognize and mitigate security threats to a home network	Implement basic WAN connectivity using Telco services
Configure an integrated wireless access point and wireless client	Demonstrate proper disaster-recovery procedures and perform server backups
Introducing Routing and Switching in the Enterprise	**Designing and Supporting Computer Networks**
Implement a LAN for an approved network design	Gather customer requirements
Configure a switch with VLANs and inter-switch communication	Design a simple Internetwork using Cisco technology
Implement access lists to permit or deny specific traffic	Design an IP addressing scheme to meet LAN requirements
Implement WAN links	Create an equipment list to meet LAN design requirements
Configure routing protocols on Cisco devices	Install and configure a prototype Internetwork
Perform LAN, WAN, and VLAN troubleshooting using a structured methodology and the OSI model	Obtain and upgrade Cisco IOS software in Cisco devices

Semester 3+4 (label aligned to the second section of the table)