

# CIS282L : Routing & Switching Essentials

This course is the second in a series of four courses designed to prepare students to earn the Cisco Certified Network Associate (CCNA) certification. It is based on the Cisco Routing & Switching Essentials course and introduces the architecture, components and operation of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of the course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single and multi-area OSPF, VLANs and inter-VLAN routing in both IPv4 and IPv6 networks.

**Credits** 3

**Lab Hours** 2

**Class Hours** 2

**Prerequisites**

[CIS248L](#) with a C- or better