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CSCO 120 CCNA Introduction to Networks 3-4 Credits
This course introduces architectures, models, protocols, and networking elements. It uses the OSI and TCP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. Students learn IP addressing, foundational network security, and basic configurations for routers and switches. Prerequisite:

CSCO 121 CCNA SW, RT & WRLS ESNTLS 3-4 Credits
This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and switch for basic functionality. Students will configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, and single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. Prerequisite: Must have completed CSCO 120 with a 'C' or better.

CSCO 130 Fundamentals of Wireless LANs 4 Credits
An intensive introduction to wireless LANs which focuses on the design, planning, implementation, operation and troubleshooting of wireless LANs. This hands-on lab-oriented course stresses documentation, design, and installation issues, as well as lab safety, on-the-job safety, and working effectively in a group environment. This course will help prepare students for the Cisco Wireless LAN Support Specialist Designation. Prerequisite: Must have completed CSCO 121 with a 'C' or better.

CSCO 220 CCNA ENSA 3-4 Credits
This course describes the architecture, components, and operations of routers and switches in a larger and more complex network. Students learn how to configure a router and a switch for advanced functionality. Students will configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. Prerequisite: Must have completed CSCO 121 with a 'C' or better.

CSCO 230 Fundamentals Network Security 4 Credits
This course is designed to prepare students for entry level certification in network security. The course is an introduction to network security and overall security processes. This course teaches students to design and implement security solutions to reduce the risk of revenue loss and network vulnerability. Prerequisite: Must have completed CSCO 121.

CSCO 480 CCNP Enterprise Core Network I 4 Credits
CCNP Enterprise: Core Networking (CCNP ENCOR v7) - aligns to the Cisco Press CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide and the Implementing Cisco Enterprise Network Core Technologies (ENCOR 350-401) certification exam. The ENCOR course includes implementation of core enterprise network technologies including dual stack (IPv4 and IPv6) architecture, virtualization, infrastructure, network assurance, and automation. Prerequisite: Must have completed CSCO 220 or instructor approval.

CSCO 482 CCNP Enterprise Core Netwrk II 4 Credits
This course prepares the student with the knowledge and skills necessary to use advanced IP addressing and routing in implementing scalability for routers connected to LANs and WANs and assists in preparation for the CCNP ENCOR exam. Enterprise Core Networking (ENCOR) curriculum provides students with a broad scope of architectural understanding and implementation skills required by enterprise networks. The course covers switching, routing, wireless, and related security topics along with the technologies that support software-defined, programmable networks. Prerequisite: Must have completed CSCO 480 or instructor approval.

CSCO 483 CCNP ENARSI 4 Credits
Cisco has evolved its CCNP Enterprise certification to a streamlined format that requires passing two exams: the Enterprise Core (ENCOR) exam (350-401) and the Enterprise Advanced Routing and Services (ENARSI) exam (300-410). The CCNP Enterprise: Advanced Routing and Services (CCNP ENARSI v8) course is designed to provide in-depth knowledge of advanced concepts for configuring routers and services in an enterprise environment. These devices and services play a critical role in connecting devices, applications, and data across the internet and other computer networks. By the end of this course, students will be able to perform advanced configurations for routers and services, enabling them to build and configure enterprise-level local area networks (LANs) and wide area networks (WANs). This includes using both IPv4 and IPv6 advanced routing protocols, leveraging advanced protocol features to optimize network performance, implementing route redistribution, and exploring advanced tunneling technologies. Prerequisite: Must have completed CSCO 482.