

# COURSE DESCRIPTIONS BY COURSE DISCIPLINE PREFIX

## NET NETWORKING TECHNOLOGY

<b>NET-125</b>	<b>Introduction to Networks</b>	<b>3 (1-4)</b>	<b>Fall Spring</b>
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**Prerequisites:** None

**Corequisites:** None

This course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. Topics include introduction to the principles of IP addressing and fundamentals of Ethernet concepts, media, and operations. Upon completion, students should be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.(2016 FA)

<b>NET-126</b>	<b>Switching and Routing</b>	<b>3 (1-4)</b>	<b>Fall Spring Summer</b>
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**Prerequisites:** None

**Corequisites:** None

This course covers the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts. Emphasis is placed on configuring and troubleshooting routers and switches for advanced functionality using security best practices and resolving common network issues utilizing both IPv4 and IPv6 protocols. Upon completion, students should be able to configure VLANs and Inter-VLAN routing applying security best practices, troubleshoot inter-VLAN routing on Layer 3 devices, configure redundancy on a switched network using STP and EtherChannel, configure WLANs using a WLC and L2 security best practices and configure IPv4 and IPv6 static routing on routers.(2021 FA)

<b>NET-225</b>	<b>Enterprise Networking</b>	<b>3 (1-4)</b>	<b>Fall Spring</b>
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**Prerequisites:** None

**Corequisites:** None

This course is designed to cover the architecture, components, operations, and security to scale for large, complex networks, including wide area network (WAN) technologies. Emphasis is placed on configuring, troubleshooting, and securing enterprise network devices and understanding how application programming interfaces (API) and configuration management tools enable network automation. Upon completion, students should be able to configure link state routing protocols, implement ACLs to filter traffic and secure administrative access, configure NAT services on the router to provide address scalability, explain techniques to provide address scalability and secure remote access for WAN, and explain how automation affects evolving networks.(2021 FA)