

## NET Networking

### NET 105 IT Fundamentals (2-2) 3 crs.

Provides students with a hands-on introduction to operating systems and related concepts. Includes hardware, software, file systems, directory structures, files and attributes, text editors, applications, and maintenance. Compares and contrasts GUI and command line interfaces in a variety of current operating systems.

### NET 111 A+ Hardware (2-2) 3 crs.

Provides students with experience installing, configuring, maintaining, upgrading, diagnosing, troubleshooting, and networking recent and current personal computer hardware.

**Prerequisite:** NET 105 with a grade of C or better or concurrent enrollment.

### NET 112 A+ Operating Systems Technologies (2-2) 3 crs.

Provides students with experience installing, configuring, upgrading, diagnosing, troubleshooting, and networking recent and current personal computer operating systems.

**Prerequisite:** NET 105 with a grade of C or better or concurrent enrollment.

### NET 121 Computer Networking (2-2) 3 crs.

Provides students with hands-on experience implementing and maintaining computer networks. Includes networking standards, architecture, operations, security and troubleshooting using current network operating systems.

**Prerequisite:** CIS 101, NET 105, or WEB 110 with a grade of C or better.

### NET 122 Internet Protocols (2-2) 3 crs.

Provides students with a detailed examination of Internet addressing and protocols. Includes IP addressing, routing, IP, ICMP, ARP, TCP, UDP, DHCP, DNS, HTTP, FTP, and SMTP. Uses protocol analyzers to monitor and examine network traffic.

**Prerequisite:** CIS 101 or NET 105 or WEB 110 with a grade of C or better.

### NET 201 Service Desk and Service Management (2-2) 3 crs.

Provides a comprehensive introduction to service desk and IT service management concepts. Includes service desk operations, roles and responsibilities, processes and procedures, service strategy, service design, service transition, service operation and continual service improvement. Emphasizes communication and teamwork skills through collaborative hands-on assignments and activities.

**Prerequisite:** NET 105 with a grade of C or better.

### NET 240 Linux Administration (2-2) 3 crs.

Provides students with a comprehensive introduction to Linux administration. Includes architecture, installation, commands, file systems, data management, user interfaces, administrative tasks, system services, networking, and security.

**Prerequisite:** NET 121 with a grade of C or better.

### NET 260 Windows Server Administration (2-2) 3 crs.

Provides students with a comprehensive introduction to Windows Server administration. Includes installation, server roles, Active Directory, storage, performance and maintenance.

**Prerequisite:** NET 121 with a grade of C or better.

### NET 270 Cisco Networking (CCNET) (2-2) 3 crs.

Provides students with experience configuring Cisco routers and switches for a variety of tasks, including IOS basics, router configuration, routing protocols, NAT, access lists, WAN settings, switching and VLANs.

**Prerequisite:** NET 121 with a grade of C or better.

### NET 280 IT Security (2-2) 3 crs.

Provides students with a comprehensive hands-on overview of IT security including network security, compliance and operational security, threats and vulnerabilities, application, data and host security, access control, identity management and cryptography.

**Prerequisite:** NET 121 or NET 122 with a grade of C or better.

### NET 290 Cloud Computing (2-2) 3 crs.

Provides hands-on experience with cloud technologies and infrastructures. Includes cloud concepts, virtualization, infrastructure, resource management, security, systems management, and business continuity. Emphasizes design and implementation of a real-world infrastructure using multiple cloud service providers.

**Prerequisite:** Prior or concurrent enrollment in NET 240 or NET 260 with a grade of C or better. Recommended: Prior or concurrent enrollment in NET 270 and NET 280 with grades of C or better.