

NETWORKING TECHNOLOGY (NETT)

NETT 2104 Credits: 2

MTA Networking Fundamentals Total Hours: 30

Learn the fundamentals of local area networking and wired/wireless networks, define networks with the OSI Model, and develop an understanding of Internet Protocol, implementing TCP/IP, and networking services. Build your knowledge of wide area networks, network security, and defining network infrastructures. Students have the opportunity to write the MTA Networking Fundamentals exam at the end of the course (Exam 98-366).

Pre-requisite(s): A+ Hardware (NETT 2119) or Server Fundamentals (NETT 2113)

NETT 2105 Credits: 2

Security Fundamentals Total Hours: 30

Focuses on the vital fundamentals of security, such as security layers, authentication, authorization, and accounting. Other topics include security policies, network security, basics of cryptography, operational/organizational security, and protecting the server and client.

Pre-requisite(s): A+ Hardware (NETT 2119) or Server Fundamentals (NETT 2113)

NETT 2107 Credits: 2

Active Directory Total Hours: 30

Learn to implement, configure, manage, and troubleshoot Active Directory Domain Services (AD DS) in Windows Server 2012R2 environment. Explore core AD DS concepts and functionality, implementing group policies, performing backup and restoration, and monitoring and troubleshooting Active Directory-related issues. Cloud technology using Microsoft Azure is used to enhance the hands-on classroom learning experience.

NETT 2113 Credits: 2

Server Fundamentals Total Hours: 30

A lab-based course that covers Windows Server fundamentals such as managing, monitoring, and troubleshooting. Topics include storage, Active Directory, File and Print services, and Windows Network Services and Applications. Learn to navigate the OS environment, install servers, use administrative tools, and manage Windows file systems.

Pre-requisite(s): Basic knowledge of Windows

NETT 2119 Credits: 2

A+ Hardware Total Hours: 30

The CompTIA A+ Certification course is the first step in preparing for a career as an entry-level information technology (IT) professional or personal computer (PC) service technician. Build on your existing user-level knowledge and experience with personal computer software and hardware to develop fundamental skills and concepts that you will use on the job. Students acquire the essential skills and information needed to install, upgrade, repair, configure, troubleshoot, optimize, and perform preventative maintenance on basic personal computer hardware and operating systems.

NETT 2122 Credits: 2

Project+ Management Total Hours: 30

Ideal for IT business professionals, this course prepares students to write the CompTIA Project+ certification exam and teaches how to lead, manage, and direct small- to medium-scale projects. Examine the business, interpersonal, and technical project management skills required to successfully manage technological project deployments. Required supplies: Please purchase textbook from downtown bookstore prior to course start date. Please bring a USB stick to class.

Pre-requisite(s): A+ Hardware (NETT 2119) or Server Fundamentals (NETT 2113)

NETT 2206 Credits: 4

Directive Studies Total Hours: 60

A self-directed, project-based course in which students use the skills acquired during the program to propose a project that includes developing a major working system. Students select their own placements and will be assigned an academic supervisor for the practical component of this program. Required: three electives in addition to pre-requisites.

Pre-requisite(s): NETT 2113, NETT 2122

Note: NETT 2107 pre-requisite(s): NETT 2119 A+ Hardware or NETT 2113 Server Fundamentals