

MICROSOFT TECHNOLOGY (MST)

MST140 / Microsoft Networking Essentials

3 Credits / 4.0 Periods for Lecture & Lab

Emphasis on local area network with overview of wide area networks. Includes terminology, hardware and software components, connectivity, network architecture, packet structure, topologies, communication standards and protocols, and security issues. Preparation for Microsoft certification examination. Prerequisites: None. (BPC110 or CIS105, and CIS121AB) suggested but not required.

Division: Business and Computing Studies

MST150WT / Installing and Configuring Microsoft Windows 10

3 Credits / 4.0 Periods for Lecture & Lab

In-depth exploration of how to effectively install and configure Windows 10. Includes features of Windows 10, virtualization improvements, network connectivity, access to resources, monitor and maintain Windows clients and backup and recovery. Designed to prepare students for the Microsoft Windows 10 certification examination. Prerequisites: None. CIS190 or CNT140AB suggested but not required.

Division: Business and Computing Studies

MST155DB / Configuring Advanced Windows Server Services

4 Credits / 5.0 Periods for Lecture & Lab

In-depth exploration of how to effectively install and configure Windows Server. Designed to prepare students for the Microsoft Configuring Advanced Windows Server Services examination (70-412). Prerequisites: MST158++ or permission of Instructor.

Division: Business and Computing Studies

MST155DC / Installation, Storage, and Compute with Windows Server

4 Credits / 5.0 Periods for Lecture & Lab

This course focuses primarily on the installation, storage, and compute features and their functionality that is available within Windows Server. As Information Technology pushes towards more cloud based solutions and makes our classic approach obsolete, this course will help students prepare for a career within an Information Technology enterprise and help distinguish themselves in today's competitive job market. This course covers various topics like Windows Server installation, Hyper-V deployments and storage options in relation to this new cloud based reality. Prerequisites: A grade of C or better in MST150++ or permission of Instructor.

Division: Business and Computing Studies

MST157DB / Administering Windows Server

4 Credits / 5.0 Periods for Lecture & Lab

In-depth exploration of how to effectively manage Windows Server. Designed to prepare students for the Administering Microsoft Windows Server examination (70-411). Prerequisites: MST158++ or permission of Instructor.

Division: Business and Computing Studies

MST157DC / Networking with Windows Server

4 Credits / 5.0 Periods for Lecture & Lab

This course focuses on the networking features and their functionality available within Windows Server. It builds upon the skills from the Installation, Storage, and Compute with Windows Server course (MST155DC) and will develop skills related to Software-Defined Networking (SDN) solutions within Hyper-V, remote connectivity with VPN and Direct Access, and providing Internet connectivity with Domain Name System (DNS), Dynamic Host Configuration Protocol (DHCP), and Internet Protocol Address Management (IPAM). This course helps prepare for the 70-741 industry certification test. Prerequisites: A grade of C or better in MST155DC or permission of Instructor.

Division: Business and Computing Studies

MST158DB / Installing and Configuring Windows Server

4 Credits / 5.0 Periods for Lecture & Lab

In-depth exploration of how to effectively install and configure Windows Server. Includes roles and features of Server, virtualization with Hyper-V, core network services, Active Directory, and Group Policy. Designed to prepare students for the corresponding Microsoft Windows Server Installation and Configuration examination (70-410). Prerequisites: A grade of C or better in (MST140 or CNT140++) and MST150++, or permission of Instructor.

Division: Business and Computing Studies

MST158DC / Identity Management with Windows Server 2016

4 Credits / 5.0 Periods for Lecture & Lab

Prepares students to manage Windows Server 2016 tasks. Configure and manage multiple services, such as Identity Management and Active Directory. Learn how to install and configure domain controllers and create and manage users, groups, and computers within Organizational Units. Prepares students for the Microsoft exam, Identity with Windows Server 2016-70-742. Prerequisites: A grade of C or better in MST157DC.

Division: Business and Computing Studies

MST160 / Azure Administrator

4 Credits / 5.0 Periods for Lecture & Lab

Teaches IT professionals how to manage Azure subscriptions, secure identities, administer the infrastructure, configure virtual networking, connect Azure and on-premises sites, manage network traffic, implement storage solutions, create and scale virtual machines, implement web apps and containers, backup and share data, and monitor solutions. Prerequisites: A grade of C or better in MST150WT, or permission of Instructor.

Division: Business and Computing Studies

MST260 / Microsoft Azure Cloud Development and Operations

3 Credits / 4.0 Periods for Lecture & Lab

Designed to provide technical information and skills required to develop and operate Microsoft Azure cloud infrastructure environments. Describes the design processes and implementation strategies for application and infrastructure that enable continuous integration, testing, and delivery, as well as infrastructure as code and process monitoring. Emphasizes processes, and technologies required to increase software delivery velocity and improve service reliability. Helps to prepare students for the Microsoft AZ-400, Azure DevOps Engineer or DevOps Institute, DevOps Foundation exams. Prerequisites: A grade of C or better in (CIS156 and MST160) or permission of Instructor.

Division: Business and Computing Studies