

## **ITCT-140** INSTALLING AND CONFIGURING WINDOWS SERVER 3 CREDITS

### **SYLLABUS**

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#### **CATALOG DESCRIPTION**

An introduction to design, implement, configure, and manage a Windows network that incorporates the Windows Server environment. May be preparation for an industry certification exam.

Prerequisites: None

Semester Offered: On Demand

#### ***COMMON STUDENT LEARNING OUTCOMES***

*Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...*

##### **BROAD AND SPECIALIZED LEARNING**

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

##### **CRITICAL THINKING**

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

##### **CULTURAL AND CIVIC ENGAGEMENT**

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

##### **EFFECTIVE COMMUNICATION**

Students will exchange ideas and information with clarity in multiple contexts.

##### **INFORMATION LITERACY**

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

##### **INTEGRATING TECHNOLOGIES**

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

#### **COURSE LEARNING OUTCOMES**

***Upon successful completion of the course, the student will be able to...***

- I. Install and Configure Windows Server 2012
- II. Describe Active Directory Domain Services infrastructure
- III. Install and configure domain controllers
- IV. Identify and manage Active Directory Domain Services objects

- V. Automate Active Directory Domain Services administration
- VI. Describe IPv4 addressing
- VII. Describe installing and configuring Dynamic Host Configuration Protocol (DHCP), in addition to managing a DHCP database
- VIII. Describe name resolution for Windows operating system clients and Windows Server servers
- IX. Describe implementing IPv6 addressing
- X. Describe implementing storage configuration options for Windows Server
- XI. Enable and configure file and print services in Windows Server
- XII. Describe implementing Group Policy
- XIII. Increase security in a Windows Server infrastructure by using Group Policy Objects, AppLocker, and Windows Firewall
- XIV. Describe Microsoft Virtualization technologies, including Hyper