**COLLIN COLLEGE**

**COURSE SYLLABUS**

Course Information

**Course Number**: ITNW 2375

**Course Title:** VMware vSphere: Installation, Configuration, and Management

**Course Description:** A study of Virtualization in computer network technology. The course covers the installation, configuration, and management of VMware vSphere, which consists of VMware vSphere ESXi and VMware vCenter Server. Lab required.

**Course Credit Hours:** 3

Lecture Hours: 2

Lab Hours: 3

**Prerequisites:**  ITCC 1374 and ITMT 2371, or consent of Associate Dean.

**Student Learning Outcomes:** Upon successful completion of this course, students will:

1. Install and configure ESXi. (SCANS:F1,F2,F3,F4,F7,F8,F10,F15,F16,C1,C3, C5, C6,C11,C12,C14,C15,C16,C19)
2. Install and configure vCenter Server components. (SCANS: F1,F2,F3,F4,F5,F6,F7,F8, F9,F12,F14,F15,C1,C3,C5,C6,C7,C11,C12,C13,C14,C15,C16,C18,C19)
3. Use vCenter Server to configure and manage ESXi networking and storage. (SCANS: F1,F2,F3,F4,F7,F8,F9,F10,F11,C1,C3,C5,C6,C7,C11,C12,C13,C14,C15,C16,C18,C19,C20)
4. Deploy, manage, and migrate virtual machines. (SCANS: F1,F2,F3,F4,F7,F8,F9,F10, F11,C1,C3,C5,C6,C7,C11,C12,C13,C14,C15,C16,C18,C19,C20)
5. Manage user access to the VMware infrastructure. (SCANS: F1,F2,F3,F4,F7,F8,F9, F10,F11,C1,C3,C5,C6,C7,C11,C12,C13,C14,C15,C16,C18,C19,C20)
6. Use vCenter Server to monitor resource usage. (SCANS: F1,F2,F3,F4,F7,F8,F9, F10,F11,C1,C3,C5,C6,C7,C11,C12,C13,C14,C15,C16,C18,C19,C20)
7. Use vCenter Server to increase scalability. (SCANS: F1,F2,F3,F4,F7,F8,F9, F10,F11,C1,C3,C5,C6,C7,C11,C12,C13,C14,C15,C16,C18,C19,C20)
8. Use VMware vSphere® Update Manager™ to apply ESXi patches. (SCANS: F1,F2,F3,F4,F7,F8,F9, F10,F11,C1,C3,C5,C6,C7,C11,C12,C13,C14,C15,C16,C18,C19,C20)
9. Use vCenter Server to manage higher availability and data protection. (SCANS: F1,F2,F3,F4,F7,F8, F9,F10,F11,C1,C3,C5,C6,C7,C11,C12,C13,C14,C15,C16,C18,C19,C20)

**Secretary’s Commission on the Acquisition of Necessary Skills (SCANS) -** SCANS skills are a group of foundational skills and workplace competencies that the Secretary’s Commission on the Acquisition of Necessary Skills established as vitally important for workplace success in the 21st century. In Collin’s workforce programs, the SCANS skills are developed and reinforced throughout the curriculum to provide students with an opportunity to hone these skills/competencies in the context of their education. Over the course of an entire degree program, the successful student is expected to demonstrate all of the SCANS skills and competencies as part of their education. The SCANS Foundation Skills and Workplace Competencies are described at: <http://www.collin.edu/academics/programs/Workforce_SCANS_Skills_Syllabi_Code_Key.pdf>

**Withdrawal Policy:** See the current *Collin Registration Guide* for last day to withdraw.

**Collin College Academic Policies:** See the current *Collin Student Handbook.*

**Americans with Disabilities Act Statement:** Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to contact the ACCESS office, SCC- D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.

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