The Virtualization Technologies course is designed to get students up to speed on one of the most important aspects of today's IT environment. This course covers the fundamental concepts, components, infrastructure, as well as security and privacy considerations for virtualization systems. Through lectures, discussions, demonstrations, and labs, students learn the skills and knowledge necessary to install, configure and manage virtual environments. Students will learn how to effectively plan, implement and manage Cloud Computing in virtual data centers and complete introductory coursework in Virtualization software. Topics will include creating virtualized switches and storage, creating and managing virtual machines, establishing access controls, and performing resource monitoring. With additional effort, students can use this knowledge to pass the VCP Certification Exam. (Prerequisite: COMP 1200 Hardware and Software Essentials)

Describe the benefits of using virtual machines.
Define a virtual machine.
Identify the files that comprise a virtual machine.
Explain the concepts of server, network, and storage virtualization.
Compare and contrast physical and virtual architectures.
Describe the history of computer virtualization technology.
Discuss the practical aspects of virtualization.

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Identify the root cause of a storage issue based on troubleshooting information.

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Explain the features of the Hyper-V platform.
Define how to create and customize virtual machines with Hyper-V.
Describe how to use file and folder security with Hyper-V.
Use file name roles with Hyper-V.

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South Central College strives to make all learning experiences as accessible as possible. If you have a disability and need accommodations for access to this class, contact the Academic Support Center to request and discuss accommodations.   North Mankato: Room B-132, (507) 389-7222;   Faribault:  Room A-116, (507) 332-7222.


Additional information and forms can be found at:  [www.southcentral.edu/disability](http://www.southcentral.edu/disability)


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