

Hagerstown Community College
OFFICIAL COURSE SYLLABUS DOCUMENT

COURSE: IST 264 Server Management II – 3 credits

INSTRUCTOR: Jon Morse

SEMESTER/YEAR: Spring 2012

CONTACT INFORMATION:

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COURSE DESCRIPTION: This course prepares students for the day-to-day management skills in Microsoft, Managing a Windows Network Environment. Topics include publishing resources in Active Directory, managing data storage, creating shared resources, configuring and troubleshooting IIS, monitoring and managing network security, troubleshooting routing and RRAS, configuring and troubleshooting TCP/IP, configuring and administering DHCP, configuring and administering DNS and troubleshooting start-up problems. Laboratory fee required. Prerequisite: IST 261 or consent of instructor. Semester offered: As needed. 3 Credits

TEXTBOOK: Microsoft Official Academic Course: Windows Server 2008 Network Infrastructure Configuration and Lab Manual (Microsoft Press, 2009)

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, you will have learned to:

- Describe the purpose of the Dynamic Host Configuration Protocol (DHCP) and how it streamlines network administration. Configure and manage DHCP.
- Install and configure the Domain Name System (DNS) including primary zones, secondary zones, in-addr.arpa zones, and stub zones. Define DNS and Windows Internet Naming Service (WINS) integration and explain how host names and the network basic input/output system (NetBIOS) names fit into DNS and WINS integration.
- List and describe the security configuration tools included with Windows Server 2003, and understand how the security configuration tools are used to configure security settings. Analyze system security in your Microsoft Windows 2000 network. Implement security baseline settings and audit security settings using security templates.
- Use the Encrypting File System (EFS) to encrypt and decrypt files using the Windows graphical user interface (GUI) and the command line.
- Identify and run the Microsoft Baseline Security Analyzer (MBSA) and use the results to increase the level of security on your computers.
- Identify and explain the major components and concepts of Internet Protocol security (IPSec) including security associations, header protocols, Internet Key Exchange (IKE), the role of the IPSec Policy Agent and IPSec driver, and the security negotiation process.
- Configure Windows Update and Automatic Updates, and explain the difference between the two. Implement SUS in your organization.
- Configure a Windows Server 2003 to act as a local area network (LAN) router.
- Configure and troubleshoot dial-up and virtual private network (VPN) remote access.
- Understand how NAT works and how to configure it.

- Troubleshoot server services using the Service utility and Event Viewer. Use service recovery options to diagnose and resolve service-related issues.

Total Hours of Coursework:

To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute “academic” hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours within the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit.

For most classes, students should expect to do at least 2 hours of coursework outside of class for each hour of in-class coursework.

ASSESSMENT PROCEDURES: Exams and quizzes may be proctored in the classroom or online. Skills based examinations must be completed in a proctored setting.

Final Exam	25%
Midterm Exam	25%
Participation	10%
Lab Projects/Quizzes	40%

Grading Scale:	90—100%	A
	80— 89%	B
	70— 79%	C
	60— 69%	D

COURSE POLICIES:

1. **Exam Policies:** The Exam schedule will be distributed in class early in the semester. Students absent from an announced major exam will be given an equivalent examination only if the student has a legitimate reason for the absence and has given prior (24 hours minimum) notice. Missed exams must be made up prior to the next class meeting unless the situation makes that not possible and an exception is granted at the discretion of the instructor. Failure to give proper notification to the instructor or failure to make-up the exam in the stated time will result in a score of zero on the missed exam. This complies with college policy.
2. **Attendance Policies:** Attendance will be taken for each class meeting. For every three absences from classes, your final grade may be lowered by one letter grade.
3. **Lab/Assignments:** Assignments will only be accepted up to 7 days past the due date with a 20% penalty after the 7th day the assignment will be refused.
4. **Topical Outline (see below):** The instructor reserves the right to modify course schedule, topics, and assignments as needed.

Services for Students with Special Needs: Students who have special needs are encouraged to identify themselves to the Coordinator of Disability Services as early as possible. Reasonable accommodations based on current documentation are provided to qualified students.

LOANER USB DRIVES:

All students receive loaner USB hard drives to port their virtual images between home and class. Students will sign to verify that they have received the drives and they will receive an “F” if they are not returned at the completion of the term.

COURSE CONTENT OBJECTIVES:**TOPICAL OUTLINE:**

Date	Activity
Jan. 11, 2012	Introduction to Course Review of Virtualization Lesson 1
Jan. 18, 2012	Lesson 2 Lab 2 - and Knowledge Assessment Questions.
Jan. 25, 2012	Lesson 2 Lab 2 - and Knowledge Assessment Questions.
Feb. 1, 2012	Lesson 3 Lab 3 - and Knowledge Assessment Questions.
Feb. 8, 2012	Lesson 3 Lab 3 - and Knowledge Assessment Questions.
Feb. 15, 2012	Lesson 4 Lab 4 - and Knowledge Assessment Questions.
Feb. 22, 2012 Mid-Term	Lesson 4 Lab 4 - and Knowledge Assessment Questions.
Feb. 29, 2012	Lesson 5 Lab 5 - and Knowledge Assessment Questions.
Mar. 14, 2012	Lesson 6 Lab 6 - and Knowledge Assessment Questions.
Mar. 21, 2012	Lesson 7 Lab 7 - and Knowledge Assessment Questions.
Mar. 28, 2012	Lesson 8 Lab 8 - and Knowledge Assessment Questions.
Apr. 4, 2012	Lesson 9 Lab 9 - and Knowledge Assessment Questions.
Apr. 11, 2012	Lesson 10 Lab 10 – and Knowledge Assessment Questions.
Apr. 18, 2012	Final Exam
Apr. 25, 2012	Final Exam