

# Computer Science Technology Department

Houston Community College

Department Phone Number:



## Windows Server 2008 Network Infrastructure Configuration – MCITP Certification Track Course Syllabus

<b>Instructor</b>	<b>Name: Phong Dam</b> <b>Tel: 713-718-6776 (Leave message using my name)</b> <b>Office: By Appointment</b> <b>Email: <a href="mailto:phong.dam@hccs.edu">phong.dam@hccs.edu</a></b> <b>Website: <a href="http://learning.hccs.edu/faculty/phong.dam">http://learning.hccs.edu/faculty/phong.dam</a></b>		
<b>Course Reference Number (CRN)</b>	81188	<b>Course Level</b>	Intermediate
<b>Course Description:</b>	A course in Windows Server 2008 networking infrastructure to include installation, configuration, and troubleshooting of Internet Protocol (IP) addressing, network services and security.		
<b>Course Prerequisite(s)</b>	ITMT 1371 Microsoft Windows 7 Configuration or ITNW 1425 Fundamental of Networking Technology		
<b>Course Semester Credit Hours (SCH) (Lecture, Lab)</b>	Credit Hours 3.0 (Lecture 2, Lab 4)		
<b>Course Location/Times</b>	West Loop Center - Room 154 Wednesday: 6pm - 10 pm	<b>Total Course Contact Hours</b>	96
<b>Instructional Materials (Textbook)</b>	Microsoft Official Academic Course 70-642: Windows Server 2008 Network Infrastructure. (Includes lab manual). Author: Microsoft Learning. ISBN 978-0-470-87501-8 Publisher: Wiley. <a href="http://www.wiley.com/WileyCDA/WileyTitle/productCd-EHEP001489.html">http://www.wiley.com/WileyCDA/WileyTitle/productCd-EHEP001489.html</a>		
<b>Instructional Methods (select one)</b>	Face to Face	<b>Type of Instruction (Lecture, Lecture/Lab, COOP, Practicum)</b>	Lecture/Lab
<b>Course Length (number of weeks)</b>	16 Weeks		

## Course Requirement, Policy, and

## Course Calendar

<b>Instructor's Requirements</b>	<ul style="list-style-type: none"> <li>- Each student need to have an external hard drive that has at least 100GB free space. USB3 external hard drive is preferred.</li> <li>- Basic understand about operating system, file browsing, cut &amp; paste, MS word.</li> </ul>												
<b>Instructor Grading Criteria</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #fce4d6;"> <td colspan="2" style="text-align: center;"><b>COURSE GRADING:</b></td> </tr> <tr> <td style="width: 20%;">30%</td> <td>Final Exam</td> </tr> <tr> <td>30%</td> <td>Mid Term</td> </tr> <tr> <td>10%</td> <td>Assignments</td> </tr> <tr> <td>30%</td> <td>Labs</td> </tr> <tr> <td>100%</td> <td>TOTAL</td> </tr> </table>	<b>COURSE GRADING:</b>		30%	Final Exam	30%	Mid Term	10%	Assignments	30%	Labs	100%	TOTAL
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### Course Calendar

Week	Date	Topics	Readings	Exams
1	01/15/2013	Syllabus / Book / Course Review/ Labs		
2	01/22/2013	Introduction to VMWare Virtualization technology Introduction to Networking Concepts	Chapter 1	
3	01/29/2013	Installing Microsoft Windows Server 2008 Lab Chapter 2	Chapter 2	
4	02/05/2013	Lab Chapter 2	Chapter 2	
5	02/12/2013	In class project		
6	02/19/2013	Configuring and Managing DHCP Server Role	Chapter 3	
7	02/26/2013	Configuring and Managing DNS server Role	Chapter 4	
8	03/05/2013	Configuring Routing and Remote Access (RRAS) and Wireless Networking	Chapter 5	

<b>9</b>	03/19/2013	Configuring File Services	Chapter 6	
<b>10</b>	03/26/2013	Midterm – Chapter 1-6 Configuring Print Services	Chapter 7	
<b>11</b>	04/02/2013	Maintaining and Updating Windows Server 2008	Chapter 8	
<b>12</b>	04/9/2013	Securing Data Transmission and Authentication	Chapter 9	
<b>13</b>	04/16/2013	Maintaining Network Health	Chapter 10	
<b>14</b>	04/23/2013	Maintaining Windows Server 2008 File Services	Chapter 11	
<b>15</b>	04/30/2013	Labs	Labs	
<b>16</b>	05/07/2013	Final – Chapter 7 - 11		Final

# Learning Objective, Students Learning Outcome, and Program Spec

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**Note:** This section of the syllabus provides the general course learning objectives, the expected students learning outcome, the course scope in terms of the department program, and the instrument used to evaluate the course. If you have any question, contact the instructor or the department.

<b>HCC Grading Scale</b>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">Grade</th> <th style="padding: 5px;">GPA Points</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">A = 100- 90</td> <td style="padding: 5px;">4 points per semester hour</td> </tr> <tr> <td style="padding: 5px;">B = 89 - 80:</td> <td style="padding: 5px;">3 points per semester hour</td> </tr> <tr> <td style="padding: 5px;">C = 79 - 70:</td> <td style="padding: 5px;">2 points per semester hour</td> </tr> <tr> <td style="padding: 5px;">D = 69 - 60:</td> <td style="padding: 5px;">1 points per semester hour</td> </tr> <tr> <td style="padding: 5px;">59 and below = F</td> <td style="padding: 5px;">0 points per semester hour</td> </tr> <tr> <td style="padding: 5px;">IP (In Progress)</td> <td style="padding: 5px;">0 points per semester hour</td> </tr> <tr> <td style="padding: 5px;">W(Withdrawn)</td> <td style="padding: 5px;">0 points per semester hour</td> </tr> <tr> <td style="padding: 5px;">I (Incomplete)</td> <td style="padding: 5px;">0 points per semester hour</td> </tr> <tr> <td style="padding: 5px;">AUD (Audit)</td> <td style="padding: 5px;">0 points per semester hour</td> </tr> </tbody> </table> <p style="margin-top: 10px;">IP (In Progress) is given only in certain developmental courses. The student must re-enroll to receive credit. COM (Completed) is given in non-credit and continuing education courses. To compute grade point average (GPA), divide the total grade points by the total number of semester hours attempted. The grades "IP," "COM" and "I" do not affect GPA.</p>	Grade	GPA Points	A = 100- 90	4 points per semester hour	B = 89 - 80:	3 points per semester hour	C = 79 - 70:	2 points per semester hour	D = 69 - 60:	1 points per semester hour	59 and below = F	0 points per semester hour	IP (In Progress)	0 points per semester hour	W(Withdrawn)	0 points per semester hour	I (Incomplete)	0 points per semester hour	AUD (Audit)	0 points per semester hour
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<b>Course Student Learning Outcomes (SLOs):</b>	<p>After completing this course, students will be able to:</p> <ul style="list-style-type: none"> <li>Install and configure servers.</li> <li>Configure and troubleshoot DNS.</li> <li>Configure and manage WINS.</li> <li>Configure and troubleshoot DHCP.</li> <li>Configure and troubleshoot IPv6 TCP/IP.</li> <li>Configure and troubleshoot Routing and Remote Access.</li> <li>Install, configure, and troubleshoot the Network Policy Server Role service.</li> <li>Configure Network Access Protection.</li> <li>Configure, monitor and troubleshoot IPsec.</li> <li>Configure and manage Distributed File System.</li> <li>Configure and manage storage technologies.</li> <li>Configure availability of network resources and content.</li> <li>Configure server security compliance</li> </ul> <p>In-depth coverage of the knowledge and skills necessary to understand Windows Server 2008 deployment, Windows Server 2008 monitoring, installation of server roles for Windows Server 2008, high-availability Windows Server 2008 deployment, maintain a Distributed File System (DFS) in Windows Server 2008, define server backup requirements and policies for Windows Server Backup, plan and implement a Windows Server 2008 restore.</p>																				

<b>Learning Objectives</b>	
<b>Student Assignment(s)</b>	Refer to the course calendar
<b>Program/Discipline Requirements:</b>	Instructors will use standard syllabus that will satisfy CurricuUNET requirements and improve on-going assessment of student-centered learning and teaching.
<b>Academic Discipline/CTE Program Student Learning Outcomes (PSLOs)</b>	<ol style="list-style-type: none"> <li>1. Install, configure, upgrade, and troubleshoot personal computer operating systems</li> <li>2. Install, configure and troubleshoot networking hardware, protocols and services</li> <li>3. Manage and Maintain a Microsoft Windows Server 2008 or newer Environment/Network Infrastructure</li> <li>4. Demonstrate knowledge in General Security Concepts, Communication Security, Infrastructure Security, and Unified Communications</li> </ol>
<b>SCANS and/or Core Curriculum Competencies: If applicable</b>	<p><b>C7: Interprets and Communicates Information</b> This course requires students to conduct original research into a network related topic, develop an understanding of a specific topic to a sufficient extent that they can interpret the information and communicate the information in a multimedia presentation to the class. These presentations usually mix audio with graphics in an integrated format consistent with the latest best practices in presentation methods.</p> <p><b>C12: Exercises Leadership</b> Students exercise leadership to communicate ideas, thoughts, and feeling to justify a position on how to improve network performance. Students must take into account others viewpoints and consider a variety of options before making decisions that affect network performance.</p> <p><b>C13: Negotiates to Arrive at a Decision</b> Students have the opportunity to work together in teams, collaborating on a group activity which will be shared with the class. They must come to common agreement through negotiations, which objectives they will satisfy in their collaboration, and decide how these objectives will be satisfied.</p> <p><b>C18: Selects Technology</b> The multimedia presentation discussed in (C7) above requires the student to select the appropriate technology to deliver their presentation. There are required learning modules which showcase the presentation tools available, and the students will choose from a portfolio of effective tools, selecting the form and format which best showcases their work.</p> <p><b>F13: Responsibility</b> Students are evaluated by their peers in their collaborative efforts, as well as by their instructor. Therefore they will feel a strong responsibility to shoulder their share of the working load, and the evaluation matrix provides a self reinforcing encouragement to be responsible and accountable for their individual contributions to the projects of the whole.</p> <p><b>F17: Integrity/ Honesty</b> Students in this course are expected to demonstrate integrity and honesty. They are treated as if they are employees, carrying out assignments as if they are in the work place, and are held accountable for their performance. They are made to understand through the work place norms the importance of trust, of completing their assigned share of the work, on time and also up to the expected standard of work.</p>
<b>HCC Policy Statement</b>	

<b>Access Student Services Policies on their Web site:</b>	<a href="http://hccs.edu/student-rights">http://hccs.edu/student-rights</a>
<b>Distance Education and/or Continuing Education Policies</b>	
<b>Access DE Policies on their Web site:</b>	<a href="http://de.hccs.edu/de/de-student-handbook">http://de.hccs.edu/de/de-student-handbook</a>
<b>Access CE Policies on their Web site for non-credit classes:</b>	<a href="http://hccs.edu/CE-student-guidelines">http://hccs.edu/CE-student-guidelines</a>
<b>Competencies: If applicable</b>	