

# Computer Science Technology Department

Houston Community College/Northeast

Department Phone Number: 713-718-6457



## ITMT 2351 - Windows Server 2008 Server Administrator Course Syllabus

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<b>Course Reference Number (CRN)</b>	59953	<b>Course Level</b>	Advanced
<b>Course Description:</b>	Knowledge and skills for the entry-level server administrator or information technology (IT) professional to implement, monitor and maintain Windows Server 2008 servers.		
<b>Course Prerequisite(s)</b>	ITMT 2301 (70-642) Windows Server 2008 Network Infrastructure Configuration		
<b>Course Semester Credit Hours (SCH) (Lecture, Lab)</b>	Credit Hours 3.0 (Lecture 2, Lab 4)		
<b>Course Location/Times</b>	Scarborough High School Mon-Fri:8:00am-10:00am	<b>Total Course Contact Hours</b>	96
<b>Instructional Materials (Textbook)</b>	70-646: Windows Server 2008 Administrator Package. Author: Microsoft Official Academic Course (MOAC) ISBN 978-0-470-13329-3. Publisher: Wiley Press		
<b>Instructional Methods (select one)</b>	Face to Face Web-enhanced (49% or less)	<b>Type of Instruction (Lecture, Lecture/Lab, COOP, Practicum)</b>	Lecture/Lab,
<b>Course Length (number of weeks)</b>	5 Weeks (summer session)		

# Course Requirement, Policy, and Course Calendar

<b>Instructor's Requirements</b>	<p>1. Adequate hardware including a 1 GHz or faster CPU, 1GB or more of RAM, graphics card with 128 MB of memory, 100 GB of disk storage space and handle multimedia items (sound and maybe a microphone [suggested but not required this semester]).</p> <p>2. Windows XP – SP2 and/or Windows Vista or Windows 7 operating systems.</p> <p>3. Internet Explorer version 7 or higher (your web browser software)</p> <p>4. High speed Internet access (DSL or cable - dial up will NOT work)</p> <p><b>DE Course Orientation:</b> Each student is expected to complete the Distance Education Department's orientation. You complete an orientation for each course you are taking. Click on the "Orientations" link on the Distance Education's home page at:  <a href="http://de.hccs.edu/portal/site/de/">http://de.hccs.edu/portal/site/de/</a>          The Distance Education site has links to get you access to the correct Moodle course area. Or, you may go to the web site directly at: <a href="http://hccs.Moodle.com/">http://hccs.Moodle.com/</a>          When you get to Moodle website, follow the "Notice to Students".</p> <p><b>Moodle Student User ID:</b> Your student login user id will be your <b>HCC User ID (sometimes referred to as the "W" number)</b>. All HCC students have a unique User ID. It is the same number you used for class registration. The default student password will still be "distance." As always, students will then be prompted to change their password after their first login. If you do not know your User ID you can look it up by visiting the HCC home page:</p> <p>☑ From <a href="http://www.hccs.edu">www.hccs.edu</a>, under the column "CONNECT", click on the "Student System Sign In" link</p> <p>☑ Then click on "Retrieve User ID" and follow the instructions. <b>Or</b> use the direct link to access the Student Sign In page: <a href="https://hccsaweb.hccs.edu:8080/psp/csprd/?cmd=login&amp;languageCd=ENG">https://hccsaweb.hccs.edu:8080/psp/csprd/?cmd=login&amp;languageCd=ENG</a></p> <p>Acceptance Guidelines: Not all people are well suited for independent study. A general set of guidelines is used to determine if you should be accepted into the sections of ITMT2351. These guidelines will require you to:</p> <ol style="list-style-type: none"> <li>1. Be self motivated or self starter: This usually means having completed at least 6 credit hours of college and having a cumulative GPA of 2.5 or better. Exceptions must be approved by the instructor.</li> <li>2. Meet the course prerequisites: This means being ready for ENGL1301 and MATH1314 (i.e. no remediation needed) and high school computer literacy or equivalent.</li> </ol> <p>3. Already be familiar with microcomputers by having used:</p> <ol style="list-style-type: none"> <li>a. Windows 95, Windows 98, Windows ME, Windows 2000 Pro, Windows XP, Windows, and or Windows 7.</li> <li>b. An Internet browser</li> <li>c. Files and folders. This means that you should be able to create, rename, delete, locate, move and copy files and folders. You should also be familiar switching between the icon view and the details view in My Computer/Windows Explorer. A basic understanding of the above file management skills is required.</li> </ol> <p>4. Have access to computer resources:</p> <ol style="list-style-type: none"> <li>a. either, have adequate hardware with software installed on a computer at home or work including adequate Internet access with DSL or cable speed</li> <li>b. Or, be able and willing to use open lab times provided by the college to complete the course.</li> <li>c. Please note, the network or computer going down the night before an assignment is due is NOT a valid excuse. Assignments have ample lead time before the Cut off Dates to allow for these types of situations. Start work early and submit your work early and you should not have a problem.</li> </ol>
<b>Instructor Grading Criteria</b>	<p>Student Attendance/Participation is Mandatory: As a Distance Education section of this topic, you must make satisfactory progress in this course. Students may be withdrawn if the student misses turning in assignments or quizzes that total to more than 89 points (which is more than 12.5% of the course work prior to the Final Exam). Contact the instructor if you are having a problem. If you decide to quit participating in the course before the Last Day for Administrative/Student Withdrawals you should see the Registrar and properly withdraw so that you will receive a W. After the withdrawal date deadline, the instructor is not able to withdraw you. If you quit participating in the course after the Last Day for Administrative/Student Withdrawals, you will receive an F or FX. This will apply to all students. Incomplete grades are rarely given.</p> <p>Thus, as your Professor, I expect to have regular contact with you during the semester. Most of this contact will be electronically within the Moodle environment. Most interaction will be via the Announcements, Discussions and Mail</p>

	<p>tools and the grading of assignments.</p> <p>Professor Participation: I will normally enter the course via Moodle every business day (Monday thru Friday unless it's a Holiday), however for a variety of reasons (sick, out of town, computer broken, internet connection not working, etc.) I may not enter the course on a given day. Often I will enter the course more than once on a business day. I will usually enter the course on Saturday morning, but not always. Sometimes, I will enter the course on Sunday. Thus, it might appear that you have 24/7 instructor response and you could wrongfully expect immediate response to all your needs. I will try to respond quickly and you should normally have a response within 3 business days, so don't panic if you don't get a response in 30 minutes.</p> <p>Instructors are usually allowed up to two weeks to grade assignments, however, I will try to grade lab assignments within 7 days after the "Cut off Date" for the assignment. In recent semesters, I have tried to grade all assignments within 2 to 3 days after they are submitted by students. All quizzes are self grading and students can see their results immediately.</p> <p>I will read all Moodle "Mail" every time I enter the course and normally will respond that same day. Once in a while a student's question requires a couple of days for me to research his question to allow me to formulate a good (correct) response.</p> <p>Final Grade: Your final grade will be posted within your Moodle course; however official grades are provided to students by the Registrar and are available shortly after the end of the semester. There is no other official method of posting a student's final grade. Final grades will not be given over the telephone by either the professor or any HCCS employee. If you need an official transcript, see the registrar and request a transcript be sent after posting of the grades for the semester.</p> <p>During the course, your progress (assignments and quiz scores) will be reported to you via the "My Grades" feature within Moodle. You should check this regularly to confirm your progress in the course is current.</p> <p>US Mailing Address, Telephone and Email Address: Make sure that your address is correct on your student ID card and that HCC has your correct telephone and email information.</p> <p>Class Schedule: The below due dates are established so as to prevent "Procrastination" on your part. It is "strongly suggested" that students set a regular study schedule. This will allow them to complete materials on or before the "Due Date". Students that work ahead will be able to handle unexpected situations that will occur in their life. Not working ahead might cause them to miss the due date for a Learning Module. Assignments not received and quizzes not taken by the "Cut off Date" for a Learning Module will not be received and will be given the grade of zero.</p> <p>Assignments must be submitted and quizzes taken by 11:55:00 PM (on OUR CLOCK) on the "Cut off Date". The "Due Date" is when we highly recommend finishing the module. The "Cut off Date" is when the module MUST be submitted. Remember, you can always turn in assignments before the "Due Date", but never after the "Cut off Date".</p> <p>If you are having problems completing course materials on time (by the "Due Date"), chat with the instructor. If you have over scheduled your life (working 40 hours a week and taking 15 credit hours of college instruction), have computer problems (my computer is broke and I don't know when it will get fixed) or don't have a textbook (too poor to buy one until payday) – DON'T BE SURPRISED IF THE INSTRUCTOR SIMPLY SAYS, "You should withdraw from the course". In other words, you might not get much sympathy and the instructor will expect materials to be submitted by the "Cut off Date".</p> <p>However, under unusually circumstances (death or illness in the family and other items that greatly disrupt your life), the instructor might be willing to accept late materials. But the time to chat with the instructor is when something is "Due". Don't wait until the "Cut off Date" to announce that you have a problem and would like some consideration; again – you might not get much sympathy.</p> <p>EXAMS: MID-TERM 25%, FINAL EXAM 25%</p> <p>Each exam is composed to test knowledge and skills acquired through reading and participation.</p> <p>Exams are an evaluation of your individual knowledge and skill acquired.</p> <p>CHAPTER QUIZZES 25%</p> <p>Quizzes are an evaluation of your individual knowledge and skill acquired.</p> <p>DISCUSSIONS/FIELD TRIP AND/OR HANDS-ON ASSIGNMENTS 25%</p> <p>Your instructor will give you more specific information regarding this section.</p>
	<p>Course Grading:</p> <p>25% Final Exam</p> <p>25% Mid-Term</p> <p>25% Chapter Quizzes</p> <p>25% Discussions/Assignments</p> <p>-----</p> <p>100% Total</p>
<p><b>Course Calendar</b></p>	

<b>Session</b>	<b>Week</b>	<b>Topics</b>	<b>Reading</b>
6/8/2015	Wk1	Intro. & Planning Server Deployments	Ch. 1
6/10/2015	Wk1	Planning Infrastructure Services	Ch. 2
6/12/2015	Wk1	Planning an Active Directory Deployment	Ch. 3
6/15/2015	Wk2	Planning an Active Directory Deployment (cont'd)	Ch. 3
6/16/2015	Wk2	Planning Application Services	Ch. 4
6/18/2015	Wk2	Planning File & Print Services	Ch. 5
6/22/2015	Wk3	Planning Storage Solutions	Ch. 6
6/24/2015	Wk3	REVIEW - Mid Term Exam	
6/25/2015	Wk3	Mid Term Exam	
6/26/2015	Wk3	Planning for High Availability	Ch. 7
6/29/2015	Wk4	Planning Server & Network Security	Ch. 8
7/1/2015	Wk4	Securing Infrastructure Services	Ch. 9
7/2/2015	Wk4	Managing & Monitoring Servers	Ch. 10 & 11
7/3/2015	Wk4	July 4 <sup>th</sup> Holiday - NO CLASS	
7/6/2015	Wk5	Backing Up Servers	Ch. 12
7/8/2015	Wk5	REVIEW - Final	
7/9/2015	Wk5	FINAL EXAM	

# 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%; text-align: center;"> <thead> <tr> <th style="width: 60%;">Grade</th> <th>GPA Points</th> </tr> </thead> <tbody> <tr> <td>A = 100- 90</td> <td>4 points per semester hour</td> </tr> <tr> <td>B = 89 - 80:</td> <td>3 points per semester hour</td> </tr> <tr> <td>C = 79 - 70:</td> <td>2 points per semester hour</td> </tr> <tr> <td>D = 69 - 60:</td> <td>1 points per semester hour</td> </tr> <tr> <td>59 and below = F</td> <td>0 points per semester hour</td> </tr> <tr> <td>IP (In Progress)</td> <td>0 points per semester hour</td> </tr> <tr> <td>W(Withdrawn)</td> <td>0 points per semester hour</td> </tr> <tr> <td>I (Incomplete)</td> <td>0 points per semester hour</td> </tr> <tr> <td>AUD (Audit)</td> <td>0 points per semester hour</td> </tr> </tbody> </table> <p>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>	<ol style="list-style-type: none"> <li>1. Plan server deployment, server management, application and data provisioning, business continuity and high availability</li> <li>2. Monitor and maintain servers.</li> </ol>																				
<b>Learning Objectives</b>	<p>After completing this course, students will be able to:</p> <ul style="list-style-type: none"> <li>• Plan a Windows Server 2008 deployment.</li> <li>• Plan and implement server commissioning and decommissioning for Windows Server 2008.</li> <li>• Plan the installation of server roles for Windows Server 2008.</li> <li>• Create a configuration change plan for Windows Server 2008.</li> <li>• Plan and implement Windows Server 2008 security.</li> <li>• Manage application versioning in Windows Server 2008.</li> <li>• Plan for a high-availability Windows Server 2008 deployment.</li> <li>• Plan a server update maintenance schedule for Windows Server 2008.</li> <li>• Maintain a Distributed File System (DFS) in Windows Server 2008.</li> <li>• Define server backup requirements and policies for Windows Server Backup.</li> <li>• Plan and implement a Windows Server 2008 restore.</li> <li>• Plan Windows Server 2008 monitoring.</li> <li>• Troubleshoot hardware issues.</li> </ul>																				

	<ul style="list-style-type: none"> <li>• Troubleshoot software issues.</li> <li>• Troubleshoot network issues.</li> <li>• 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.</li> </ul>
<b>Student Assignments</b>	Refer to the course calendar
<b>Student Assessment(s)</b>	
<b>Program/Discipline Requirements:</b>	Instructors will use standard syllabus that will satisfy CurricUNET 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 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>C16: Monitors and Corrects Performance Students monitor and correct performance of a Windows 2008 server in this course. Students correct performance and predict impact of specific actions while working with lab partners. Students identify trends and gather information by monitoring system performance.</p> <p>C17: Improves and Designs Systems</p> <ul style="list-style-type: none"> <li>• Students have to plan a Windows Server 2008 deployment, implement server commissioning and decommissioning for Windows Server 2008, Create a configuration change plan for Windows Server 2008, plan and implement Windows Server 2008 security, manage application versioning in Windows Server 2008, maintain a Distributed File System (DFS) in Windows Server 2008.</li> <li>• Define server backup requirements and policies for Windows Server Backup/restore, and troubleshoot network issues.</li> </ul>
<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>	
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