

COURSE SYLLABUS

Net 209: Windows Servers

Course Description

This course provides students with a broad understanding of Microsoft Windows servers including installation, configuration, management, and monitoring of server operating systems. Students will discuss and configure various file systems and disk management functions. General network administration will include peer-to-peer networking, an introduction to domain management, active directory services, routing and remote access, printing, and application server functions.

General Course Information

Number of Units/Weeks	8/10
#Hours Lecture/#Hours Laboratory/#Hours Homework	60/40/120
Prerequisite(s)	NET 208
Co-requisites (s)	None
Course Developer(s)	Brent Luallin, M.S
Date Approved / Last Review	7 March, 2018

Learning Outcomes

Upon completion of the course, students will be able to:

- Identify common infrastructure role services used by Windows server systems.
- Configure Windows server infrastructure services for client needs.
- Define Active Directory structure and design terms.
- Configure Domain role services used by the Windows server system.
- Configuration of common Group Policy settings, security, and situations.
- Configure common backup and restore operations for Windows servers.

Instructional Methods Employed in this Course

A number of instructional/learning methods are employed in this course, including the following:

- Lecture and reading assignments
- Hands-on exercises and labs
- Team environment
- Practical application of theory and skills in authentic design projects
- Build on prior knowledge and experience of students to enhance richness of class activities.

Information Resources for this Course



Textbook

Zacker, Craig. Installing and Configuring Windows Server 2012 R2, John Wiley and Sons 2014 ISBN 978-1-118-88231-3

Zacker, Craig. Administering Windows Server 2012 R2, John Wiley and Sons 2014 ISBN-13: 978-1118882832 ISBN-10: 1118882830

Zacker, Craig. Installing and Configuring Windows Server 2012 R2 Lab Manual, John Wiley and Sons 2014 ISBN 978-1-118-88229-0

Zacker, Craig. Administering Windows Server 2012 R2 Lab Manual, John Wiley and Sons 2014 ISBN-13: 978-1118882917 ISBN-10: 1118882911



Other Materials

Holme, Dan Configuring Windows Server 2008 Active Directory, 2011. 978-0-7356-5193-7

Northrup, Tony. Configuring Windows Server 2008 Network Infrastructure, 2011. 978-0-7356-5160-9

Kane, J. Windows Server 2008 active directory configuration, John Wiley and Sons 2009 ISBN: 978-0-470-13330-9

Kane, J. Windows Server 2008 active directory configuration lab manual, John Wiley and Sons, 2009 ISBN: 978-0-470-13330-9

Kane, J. Windows Server 2008 network infrastructure configuration, John Wiley and Sons 2009 ISBN: 978-0-470-13327-9

Kane, J. Server 2008 network infrastructure configuration lab manual, John Wiley and Sons 2009 ISBN: 978-0-470-13327-9



Web Site Readings

Petri IT Knowledgebase: Microsoft Windows Server 2008 HHW & Training
Tutorials

<http://www.petri.co.il>

Mark Minasi's Windows Tech Page

<http://www.minasi.com/nwstoc.htm>

Table/Topics & Assignments

Types of Assignments:

Lecture -

Considered Lecture Hours

Classroom Discussion -

Considered Lecture Hours

In Class Critique -

Considered Lecture Hours

Delivering Oral Presentations -

Considered Lecture Hours

In Class (IC) Exercise -

Considered Lecture Hours

Reading -

Considered Homework, work done outside of class

WebClass lesson (non-online courses) -

Considered Homework, work done outside of class

Lab Work -

Considered Lab Hours

Performance Project, Midterm or Final -

Considered Lecture Hours

Quizzes, Videos -

Considered Homework, work done outside of class

Week 1						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 1A	Introduction and Installation of Windows Servers and Basic Role Services	6	--	--	--	
LAB 1A	Labs 1-5 (70-410) Book	--	4	--	20	End of Week 1
HW 1A	Reading lessons 1-5 (pages 2-25, 29-49, 53-84, 88-115, 120-143) 125 pages. 70-410 Book	--	--	12.5	--	
HW 1B	Videos: 162 minutes End of Lesson Q 1-5 (141 questions)	--	--	7.4	30	Beginning of Week 2
HW 1C	Final Research Paper (Assigned)	--	--	--	--	End of Week 10 (Day before Final)
Total Week 1		6	4	19.9	50	
Week 2						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 2A	Configuring Virtual Machines in Hyper-V and IP Services	6	--	--	--	
LAB 2A	Labs 6-10 (70-410) LAB Book	--	4	--	20	End of Week 2
HW 2A	Reading lessons 6-10 (pages 148-163, 167-188, 192-208, 212-227, 231-253) 89 pages. 70-410 Book	--	--	8.9	--	
HW 2B	End of Lesson Q 6-10 (122 questions)	--	--	4.1	20	Beginning of Week 3
HW 2C	Assigned Videos (94 minutes)	--	--	1.6		Beginning of Week 3
Total Week 2		6	4	14.6	40	
Week 3						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 3A	DHCP, DNS, and Active Directory Management	6	--	--	--	

LAB 3A	Labs 11-15 (70-410) LAB Book	--	4	--	10	End of Week 3
HW 3A	Reading lessons 11-15 (pages 257-273, 278-302, 192-208, 212-227, 307-329, 334-352, 357-374) 97 pages. 70-410 Book	--	--	9.7	--	
HW 3B	End of Lesson Q 11-15 (110 questions)	--	--	3.7	20	Beginning of Week 4
HW 3C	Assigned Videos (98 minutes)	--	--	1.6	--	Beginning of Week 4
Total Week 3		6	4	15	30	
Week 4						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 4A	Active Directory Group Policy	6	--	--	--	
LAB 4A	Labs 16-18 (70-410) Lab Book	--	4	--	10	End of Week 4
HW 4A	Reading Lessons 16 – 18 (379-397, 401-424, 429-446) 58 pages 70-410 Book	--	--	5.8	--	
HW 4B	End of Lesson Q 13, 14, & 15 (66 questions)	--	--	2.2	10	Beginning of Week 5
HW 4C	Assigned Videos (48 minutes)	--	--	.8		Beginning of Week 5
Total Week 4		6	4	8.8	20	
Week 5						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 5A	Windows Firewall	2	--	--	--	
LAB 5A	Lab 19 (70-410) Lab Book	--	4	--	10	End of Week 6
HW 5A	Lesson 19 (452-468) 16 pages 70-410 Book	--	--	1.6	--	

ELP 5B	End of Lesson Q 19 (22 questions)	--	--	0.7	10	Beginning of Week 6
HW 5C	Assigned Videos	--	--		--	Beginning of Week 6
EXAM 5A	Midterm	1	--	--	20	End of Week 5
EXAM 5B	Performance Project	3	--	--	280	End of Week 5
Total Week 5		6	4	2.3	320	
Week 6						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 6A	Basic File , Management and Deployment Services	6	--	--	--	
LAB 6A	Labs 1-7 (70-411)Lab Book	--	4	--	20	End of Week 7
HW 6A	Lesson Reading 1-7 (2- 29, 33-60, 65-102,107- 128,134-150,155- 173,177-202) 172 pages. 70-411 Book	--	--	17.2	--	
HW 6B	End of Lesson Q 1-7 (156 questions)	--	--	5.2	30	Beginning of Week 7
ELP 6C	Final Research Paper Assigned	--	--	--	--	Beginning of Week 10
Total Week 6		6	4	22.4	50	
Week 7						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 7A	Deployment Images, Patching, and Monitoring Servers	6	--	--	--	
LAB 7A	Labs 8-12 (70-411) Book	--	4	--	20	End of Week 8
HW 7A	Lesson Reading 8-12 (207-227, 232-249, 254-281, 286-306, 312-333) 105 pages. 70-411 Book	--	--	10.5	--	
HW 7B	End of Lesson Q 8-12 (109 questions)	--	--	3.6	20	Beginning of Week 8
Total Week 7		6	4	14.1	40	

Week 8						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC8A	Security and Advanced Active Directory Maintenance Services	6	--	--	--	
LAB 8A	Labs 13-19 (70-411) Book	--	4	--	20	End of Week 9
HW 8A	Lesson Reading 13-19 (338-353, 358-377, 383-394, 399-416, 421-442, 447-458,462-479) 111 pages. 70-411 Book	--	--	11.1	--	
HW 8B	End of Lesson Q 13-19 (162 questions) Assigned Video (20 minutes)	--	--	5.7	30	Beginning of Week 9
Total Week 8		6	4	16.8	50	
Week 9						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 9A	Advanced Group Policy Setups	6	--	--	--	
LAB 9A	Lab 20-22 (70-411) Lab Book	--	4	--	20	End of Week 9
HW 9A	Lesson Reading 20-22 (484-506, 511-518, 523-535) 62 pages. 70-411 Book	--	--	6.2	--	
HW 9B	End of Lesson Q 20-22 (36 questions)	--	--	1.2	20	Week 10
Total Week 9		6	4	7.4	40	
Week 10						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 10A	Course Review / Discussions	2	--	--	--	
LAB 10A	Lab (70-411) Book	--	4	--	--	End of Week10
HW 10B	Research Paper (Due)	--	--	4	60	Day before Final
EXAM 10A	Final	1	--	--	20	End of Week10

EXAM 10B	Final Performance Project	3	--	--	280	End of Week10
Total Week 10		6	4	4	360	

Course Hours Summary

Week	Topic	LEC Hours	LAB Hours	HW Hours
1	Introduction and Installation of Windows Servers and Basic Role Services	6	4	19.9
2	Configuring Virtual Machines in Hyper-V and IP Services	6	4	14.6
3	DHCP, DNS, and Active Directory Management	6	4	15
4	Active Directory Group Policy	6	4	8.8
5	Windows Firewall /Midterm/ Performance project	6	4	2.3
6	Basic File , Management and Deployment Services	6	4	22.4
7	Deployment Images, Patching, and Monitoring Servers	6	4	14.1
8	Security and Advanced Active Directory Maintenance Services	6	4	16.8
9	Advanced Group Policy Setups	6	4	7.4
10	Course Review / Discussions / Final	6	4	4
Total		60	40	125.3

Table/Point Breakdown

Week	Assignment	Possible Points	Percent of Grade
1	Lesson Assessments	30	3%
1	Lab 1	20	2%
2	Lesson Assessments	20	2%
2	Lab 2	20	2%
3	Lesson Assessments	20	2%
3	Lab 3	10	1%
4	Lesson Assessments	10	1%
4	Lab 4	10	1%
5	Lesson Assessments	10	1%
5	Lab 5	10	1%
5	Performance project	280	28%
5	Mid Term	20	2%
6	Lesson Assessments	30	3%
6	Lab 6	20	2%
7	Lesson Assessments	20	2%
7	Lab 7	20	2%
8	Lesson Assessments	30	3%
8	Lab 8	20	2%
9	Lesson Assessments	20	2%
9	Lab 9	20	2%
10	Final Research Paper	60	6%
10	Lab 10	N/A	–
10	Final	20	2%
10	Performance project	280	28%
Total		1000	100%

Your Grades for this Course

Your final grade for this course will be based on an assessment by the Instructor of your performance on a number of course activities, which may include objective tests, classroom exercises, laboratory demonstrations, project papers, or other types of activities. The chart below indicates in what activities you will engage, how many possible points can be earned for each activity, and the percentage of your final grade that will be accounted for by each activity.

Students in this course should be graded following Coleman University assessment practices and policies. A point system is used in the University to indicate student performance on various required activities or projects. For this course, it is recommended that points be distributed as follows:

Grading Structure

The following table lists the Coleman University grading structure. All grades listed will count as units attempted.

For each unit in which the student is enrolled, he or she will receive quality points as follows:

Letter Grade	Percentage	Grade Points
A	94% - 100%	4.00
A-	90% - 93%	3.67
B+	87% - 89%	3.33
B	84% - 86%	3.00
B-	80% - 83%	2.67
C+	77% - 79%	2.33
C	74% - 76%	2.00
C-	70% - 73%	1.67
D+	67% - 69%	1.33
D	64% - 66%	1.00
D-	60% - 63%	0.67
F	0% - 59%	0.00
I	N/A	0.00
W	N/A	0.00
CR	70% or above	0.00
NC	69% or below	0.00
AU	N/A	0.00
TR	N/A	0.00
WV	N/A	0.00

Note: I = Incomplete, W = Withdraw, CR = Credit, NC = No Credit, AU= Audit, TR= Transfer, WV= Course Waiver

Requirements

Assignments: All assignments (including projects, lab work, quizzes and exams) must be completed as scheduled. The following will apply to late assignments:

- 1-24 hours after due date = 20% off point value
- 25-48 hours after due date = 60% off point value
- 49+ hours after due date = No points given

If an assignment equals less than 5 points, no points will be given for late work. If there are extenuating circumstances, the student must submit a written explanation to the department Senior Instructor. Upon evaluation, points will be given according to the Senior Instructor's discretion.

Attendance: Classes begin and end as indicated in the published schedule. It is required that students be present at the beginning of each class session and stay until class is dismissed, including lab periods. Excessive tardiness, leaving early and/or absences (from either lecture or lab sessions) are causes for dismissal from the course. A student that arrives in class beyond 30 minutes late may be considered absent. A student that leaves over 30 minutes before the end of class may also be considered absent. Excused absences will be determined by the instructors and approved by the Dean of Academics & Director of Student Services. Students may be removed from the course(s) based on the following absence guidelines:

4 Unit Course – Allowed 2 absences per 10-week MOD (3rd absence may be excused by DOA & DOSS)

5 Unit Course – Allowed 2 absences per 5-week MOD (3rd absence may be excused by DOA & DOSS)

8 Unit Course – Allowed 5 absences per 10-week MOD (6th absence may be excused by DOA & DOSS)

Conduct: Students are expected to conduct themselves in a professional manner while on campus. Rules of conduct are outlined in the University Catalog and students are required to adhere to such policies. Students who are in violation of the Student Code of Conduct Policy can be suspended.

Coleman University Policy on Academic Dishonesty:

Academic dishonesty is cause for dismissal from Coleman University. Presenting another person's ideas, methods, course work, or test answers with the intention that they be taken as one's own is theft of a special kind. It defrauds the originator of the work, the institution, its graduates, its students, and its future students.

The student has full responsibility for the authenticity of all academic work and examinations submitted. A student who appears to have violated this policy must submit to a hearing with the reporting instructor and the associate dean. If it is determined that a violation occurred, the matter will be referred to an Officer of the University with recommendations for an appropriate penalty. The student may be dismissed, suspended, or given another penalty.

Coleman University employs the plagiarism software known as Turnitin. Students are expected to use this tool in an appropriate manner with the sole purpose to support their own academic endeavors at Coleman University. Turnitin account information can not be shared with anyone. Contact your instructor if you have any questions about plagiarism related issues.

Academic Accommodation / Adjustment Policy:

In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA), Coleman University offers accommodations to students with documented physical, psychological, and/or cognitive disabilities. Coleman University will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to offer equal educational opportunities to qualified disabled individuals.

To qualify for an academic accommodation under ADA, the student must provide adequate documentation of a disability. Students seeking academic accommodations should contact the campus ADA Coordinator, Ariana Marron, at 858-966-3953 or via email at ada@coleman.edu. The ADA Coordinator will review the documentation provided and verify ADA coverage. Students covered under ADA must meet with the ADA Coordinator at the beginning of every term to determine the appropriate academic accommodations. Failing to meet with the ADA Coordinator at the beginning of every term may impact the availability of accommodations.

After the academic accommodations have been determined, the students' instructors will be notified by the ADA Coordinator. If any problems or concerns regarding the provision of accommodations occur, the student must inform the ADA Coordinator. If the student feels accommodation is not being made appropriately, the student may follow the published Student Grievance Procedures.