

CLASS NUMBER AND NAME:	<b>CSN212—Windows Server Network Infrastructure</b>
TOTAL HOURS/ UNITS:	72 HOURS/5.0 UNITS
PREREQUISITES:	CSN160-Network Plus
TEXTS AND MATERIALS:	<i>Installing and Configuring Windows Server 2012 R2</i> (Craig Zacker, John Wiley and Sons, 2014) <i>Installing and Configuring Windows Server 2012 R2- Lab Manual</i> (Craig Zacker, John Wiley and Sons, 2014) (ISBN 97811188882313)
CLASS DESCRIPTION:	This course will introduce the student to Microsoft Windows Server through lectures, demonstrations, discussions, and hands-on labs. Students will configure Microsoft Windows 2012 Server R2 to perform a wide array of services.
CLASS OBJECTIVES:	To provide the student with a fundamental knowledge of the Windows Server 2012 R2 operating system and its new features. This course deals specifically with the Windows 2012 Server R2 platform. This includes upgrading, installing, configuring, administering, and troubleshooting.
CLASS FORMAT OVERVIEW:	This class is a combination of lecture and lab.  Time spent in preparation for or reflection on course lecture will approximate two hours outside of class for each lecture credit hour utilized by the instructor in delivery of the material and ¼ hour outside of class for each hour of structured lab time.
METHODS OF INSTRUCTION:	As lecture and lab are the principal means of instruction, it will be expected that all students will be present every day to take part in class.
ATTENDANCE:	It is expected that each student will be in class <u>when class begins</u> . Should the student arrive more than <u>ten minutes late</u> they should notify the instructor of their presence, it will be up to the instructor to decide if the student has arrived in time to be counted as present- the instructor's decision is final.  <b><u>80% attendance is mandatory</u></b>  It will be the student's responsibility to learn of any assignments given in class when absent.
TESTING:	Quizzes will be given throughout the mod as well as a cumulative final exam. All quizzes, examinations, exercises and homework must be satisfactorily completed with a passing grade of 60% or better in

order to pass the course.

LATE TESTING:

**Late testing is only allowed at the instructor's discretion.**

GRADING POLICIES:

The grading system is comprised of attendance, assignments, weekly tests and an end-of-module final and will be graded on the following scale:

Homework, tests and final

Attendance and Class Participation	20%
Homework	20%
Weekly Exams	40%
Final Exam	<u>20%</u>
Module total	100%

Combined grades from attendance, assignments, weekly tests and end-of-module final will be graded on the following scale:

(90 – 100%)	= A
(80 – 89% )	= B
(70 – 79% )	= C
(60 – 69% )	= D
Below 59%	= F

ANTICIPATED LEARNING  
OUTCOMES:

Upon successful completion of this course the student will be able to:

- 1.Install and configure Windows Server 2012 R2 directly on the local machine, remotely or on Virtual Machines.
- 2.Configuring servers for remote management.
- 3.Configuring network access for Windows Server 2012 R2 using IPv4, IPv6, and Virtual networking.
- 4.Deploying DHCP and DNS service on Microsoft Windows 2012.
- 5.Designing, deploying, and maintaining Active Directory on Microsoft Windows 2012 .
- 6.Planning and deploying application services in Microsoft Windows 2012 R2 by using group policy , terminal services, and virtualization.
- 7.Deploying and maintaining File, Print and Fax Servers.
- 8.Disk Management with fault tolerance and deployment of a Storage Area Network.
- 9.Planning for high availability using backups, clustering and network load balancing.

10.Planning and maintaining network security in a 2012 server R2 environment including infrastructure , remote access, and certificates services.

## **6 Week Tentative Schedule**

### **CSN212**

#### **Week 1**

Chapters 1, 2 & 3

Test

Homework due

#### **Week 2**

Chapters 4, 5 & 6

Test

Homework due

#### **Week 3**

Chapters 7, 8, 9 & 10

Test

Homework due

#### **Week 4**

Chapters 11, 12 & 13

Test

Homework due

#### **Week 5**

Chapters 14, 15, 16 & 17

Test

Homework due

#### **Week 6**

Chapter 18 & 19

Final

Homework due

