

JEFFERSON COLLEGE

COURSE SYLLABUS

CIS254

MS SERVER III

4 Credit Hours

Revised by: Douglas Hale

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CIS254 MS Server III

I. CATALOGUE DESCRIPTION

- A. Pre-requisites
 - 1. Reading Proficiency
 - 2. CIS220 MS Server II, with a Grade of “C” or Better
- B. 4 Credit Hours
- C. MS Server III prepares students to configure advanced Windows Server 2012 services related to deploying, managing, and maintaining a Windows Server 2012 infrastructure. This course also reviews fault tolerance, certificate services, identity federation, advanced network services, advanced file services, dynamic access control, network load balancing, failover clustering, disaster recovery, Active Directory Certificate Services (AD CS), and Federation Services (AD FS). This course maps to the Microsoft 70-412 exam. (S)

II. EXPECTED LEARNING OUTCOMES/CORRESPONDING ASSESSMENT MEASURES

Configure and manage high availability with Microsoft Windows Servers	Quizzes Exams Hands-On Exercises Certification Exam
Configure file and storage solutions with Microsoft Windows Servers	Quizzes Exams Hands-On Exercises Certification Exam
Implement business continuity and disaster recovery on Microsoft Windows Servers	Quizzes Exams Hands-On Exercises Certification Exam
Configure Network Services on Microsoft Windows Servers	Quizzes Exams Hands-On Exercises Certification Exam
Configure the Microsoft Active Directory infrastructure	Quizzes Exams Hands-On Exercises Certification Exam
Configure identity and access solutions	Quizzes Exams Hands-On Exercises Certification Exam

III. OUTLINE OF TOPICS

- A. Configuring Network Load Balancing
- B. Configuring and Managing Failover Clustering
- C. Managing Virtual Machine Movement
- D. Configuring Advanced File Solutions
- E. Implementing Dynamic Access Control
- F. Configuring and Optimizing Storage
- G. Configuring and Managing Backups
- H. Configuring Site-Level Fault Tolerance and Recovering Servers
- I. Implementing an Advanced Host Configuration Protocol (AHCP) Solution
- J. Implementing an Advanced DNS Solution
- K. Deploying and Managing IPAM
- L. Configuring a Domain and Forest
- M. Configuring Trusts
- N. Configuring Sites
- O. Managing Active Directory (AD) and SYSVOL Replication
- P. Implementing Active Directory Federation Services (AD FS)
- Q. Installing and Configuring Active Directory Certificate Services (AD CS)
- R. Managing Certificates
- S. Installing and Configuring Active Directory Rights Management Services (AD RMS)

IV. METHOD(S) OF INSTRUCTION

- A. Lecture
- B. Discussion
- C. Hands-On Exercises

V. REQUIRED TEXTBOOK(S)

Microsoft Official Academic Course, *70-412 Configuring Advanced Windows Server 2012 Services with Lab Manual and MOAC Labs Online Set*, (Current Edition), Wiley

VI. REQUIRED MATERIALS

USB Removable Storage Device (Flash Drive)

VII. SUPPLEMENTAL REFERENCES

None

VIII. METHODS OF EVALUATION

A.	Participation:	15%
B.	Hands-on Exercises:	20%
C.	Quizzes:	20%
D.	Exams:	40%
E.	Certification Exam (Pass/Fail):	5%

IX. ADA AA STATEMENT

Any student requiring special accommodations should inform the instructor and the Coordinator of Disability Support Services (Technology Center 101; phone 636-481-3169).

X. ACADEMIC HONESTY STATEMENT

All students are responsible for complying with campus policies as stated in the Student Handbook; (see College Website, <http://www.jeffco.edu>).

XI. ATTENDANCE STATEMENT

Regular and punctual attendance is expected of all students. Any one of these four options may result in the student being removed from the class and an administrative withdrawal being processed: (1) Student fails to begin class; (2) Student ceases participation for at least two consecutive weeks; (3) Student misses 15 percent or more of the coursework; and/or (4) Student misses 15 percent or more of the course as defined by the instructor. Students earn their financial aid by regularly attending and actively participating in their coursework. If a student does not actively participate, he/she may have to return financial aid funds. Consult the College Catalog or a Student Financial Services representative for more details.

XII. OUTSIDE OF CLASS ACADEMICALLY RELATED ACTIVITIES

The U.S. Department of Education mandates that students be made aware of expectations regarding coursework to be completed outside the classroom. Students are expected to spend substantial time outside of class meetings engaging in academically related activities such as reading, studying, and completing assignments. Specifically, time spent on academically related activities outside of class combined with time spent in class meetings is expected to be a minimum of 37.5 hours over the duration of the term for each credit hour.