



North Central Michigan College

Master Course Syllabus

PART 1:

Course Name: Windows Servers

Course Number: IT 122

Credit Hrs. 2 Lecture Hrs. 2 Lab Hrs. 0 Clinical Hrs. 0 Variable Hrs. 0

Total Hours of Instruction: 2 Total Contact Hours: 35.2
(Total Contact hour's formula: (lecture hrs. + lab hrs. + clinical hrs) x 17.6)

Course Description:

Introduces Microsoft Windows Server operating systems through exploration, demonstrations, discussions and hands-on lab exercises. A variety of network configurations including virtual environments will be used to configure and administer a variety of server operating systems. Using Active Directory Services, the learner will configure backups, Split Brain DNS, DHCP and Windows Domains.

Prerequisite (s): IT 101, IT 102 and IT 112

Co-requisite (s): None

Course Objectives:

Upon successful completion of the course, the learner will be able to:

- Plan and deploy Standard and Core Server installations.
- Monitor and maintain Windows Servers in a SOHO environment.
- Implement and administer Active Directory and Server Roles.
- Plan Application and Data Provisioning.
- Plan for Business Continuity and High Availability.
- Configure the Split Brain implementation of DNS.
- Implement and manage Web Server.
- Describe Performance Management.

Reasonable accommodations can be provided for students with documented disabilities. Please contact Learning Support Services to arrange for these (231)348-6687 or (231)348-6817, Room 533 SCRC.



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PART 2:

Course Objectives and Linked Lumina DQP Outcomes

See **PART 3** of this syllabus for the complete language of each Lumina DQP outcome.

*Please identify the Lumina DQP outcome(s) supported by the course objectives. List each course objectives (from **PART 1**), followed by the corresponding Lumina DQP Outcome number(s) in parentheses. (See the example.)*

Example:

- *Course Objective (DQP # 1, 5, 8)*
- Plan and deploy Standard and Core Server installations. (DQP 3)
- Monitor and maintain Windows Servers in a SOHO environment. (DQP 3)
- Implement and administer Active Directory and Server Roles. (DQP 3)
- Plan Application and Data Provisioning. (DQP 3)
- Plan for Business Continuity and High Availability. (DQP 3, 4)
- Configure the Split Brain implementation of DNS. (DQP 3)
- Implement and manage Web Server. (DQP 3)
- Describe Performance Management. (DQP 3)



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Suggested Methods of Instruction:

This course will be completed as a time structured instructor directed study, videos, assigned readings with online supplemental study aids.

Suggested Methods of Assessment and Evaluation:

Lab demonstrations, oral report, quizzes and third party assessments.

Adopted Text at Time of Course Adoption/Revision:

MASTERING WIND.SERVER 2008 NETWORK, MINASI, WILEY, 9780470249840

MTA: Windows Server Administration Fundamentals 9780470901823

Topics Covered During the Semester:

Sequence of topics and time allowance are at the discretion of the instructor

Week 1	Orientation and pre-test
Week 2	Install OS and configure router
Week 3	Harden router
Week 4	Configure and validate DNS on the Internet side of the network
Week 5	Configure VMWare with Core Server, Web Server, Standard Server
Week 6	Establish and validate an Active Directory Domain in the private side of the network
Week 7	Setup and validate an RODC
Week 8	Setup and validate a web site
Week 9	Server configuration activities
Week 10	Exam preparation
Week 11	Test
Week 12	Oral examination
Week 13	
Week 14	
Week 15	
Week 16	

Part 1 & Part 2 approved by CRDAP on: 05 06 16

Part 2 approved by AD:

Date:

Part 2 approved by CRDAP Chair:

Date:

Rev02/15



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PART 3:

LUMINA DQP OUTCOMES – Use this reference sheet for **PART 2** of Master Course Syllabus.

Specialized Knowledge

1. Describes the scope and principal features of the field of study, citing at least some of its core theories and practices and offers a similar explication of at least one related field.
2. Illustrates contemporary terminology used in the field.
3. Generates substantially error-free products, reconstructions, data, juried exhibits or performances as appropriate to the field.

Broad Integrative Knowledge

4. Describes how existing knowledge or practice is advanced, tested and revised
5. Describes and examines a range of perspectives on key debates and their significance both within the field and in society.
6. Illustrates core concepts of the field while executing analytical, practical or creative tasks.
7. Selects and applies recognized methods of the field in interpreting characteristic discipline-based problems.
8. Assembles evidence relevant to characteristic problems in the field, describes the significance of the evidence and uses the evidence in analysis of these problems.
9. Describes the ways in which at least two disciplines define, address and interpret the importance of a contemporary challenge or problem in science, the arts, society, human services, economic life or technology.

Intellectual Skills – Analytic Inquiry

10. Identifies, categorizes and distinguishes among elements of ideas, concepts, theories and/or practical approaches to standard problems.

Intellectual Skills – Use of Information Resources

11. Identifies, categorizes, evaluates and cites multiple information resources necessary to engage in projects, papers or performance in his or her program.

Intellectual Skills – Engaging Diverse Perspectives

12. Describes how knowledge from different cultural perspectives would affect his or her interpretations of prominent problems in politics, society, the arts and/or global relations.

Intellectual Skills – Communication Fluency

13. Presents accurate calculations and symbolic operations and explains how such calculations and operations are used in either his or her specific field of study or in interpreting social and economic trends.
14. Presents substantially error-free prose in both argumentative and narrative forms to general and specialized audiences.

Applied Learning

15. Describes in writing at least one substantial case in which knowledge and skills acquired in academic settings are applied to a challenge in a non-academic setting; applies that learning to the question; and analyzes at least one significant concept or method related to his or her course of study in light of learning outside the classroom.
16. Locates, gathers and organizes evidence on an assigned research topic addressing a course-related question or a question of practice in a work or community setting; offers and examines competing hypotheses in answering the question.

Civic Learning

17. Describes his or her own civic and cultural background, including its origins and development, assumptions and predispositions.
18. Describes diverse positions, historical and contemporary, on selected democratic values or practices and presents his or her own position on a specific problem where one or more of these values or practices are involved.
19. Takes an active role in a community context (work, service, co-curricular activities, etc.) and examines the civic issues encountered and the insights gained from the community experience.

The Degree Qualifications Profile was adopted by CRDAP: April 11, 2012