

JOHN A. LOGAN COLLEGE

COURSE SYLLABUS



General Information

Course: CIS 206 – Managing Network Environments I
IAI No: NA
Semester:
Section:
Time:
Room:
Credit Hours: 3
Lecture Hours: 2
Lab Hours: 2

Instructor Information

Name:
Office:
Virtual Office Hours:

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Phone:
Email:

Course Textbook & Materials

Tomsho. MCSA Guide to Identify with Windows Server 2016 (LLF) (w/Access). 2nd Edition. Course Technology, 2017
ISBN: 9781337761796

Course Prerequisites

None

Course Description

This course is designed to give the student knowledge and practical experience in administering a Microsoft Server network. Students will be able to describe the principle features of a network operating system and the networking basics of active directory.

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Students will gain an understanding of the basic components of an information technology system. The student will work with and troubleshoot in the areas of installation of the network operating system, setting up users and groups, assignment of group policy and permissions of a network. This course will assist the student in preparing for an industry-recognized certification exam.

Course Objectives

1. Describe the principal features of the Microsoft server.
2. Install and securely configure, operate and maintain a Microsoft server.
3. Describe hardware components of modern computing environments and their individual functions.
4. Identify the job skills necessary to becoming a network administrator.
5. Identify the tools used to perform common administrative tasks.
6. Develop user accounts for server administration.
7. Configure appropriate authentication policies.
8. Describe and manage the types of group accounts and the principal security features of a server.
9. Demonstrate proficiency in the use of scripting languages to write simple scripts.
10. Describe the features of the common network protocols used on a server.
11. Apply the fundamentals of TCP/IP.
12. Utilize the administrative tools to administer file and print resource to a Microsoft Network.
13. Perform server maintenance duties to include backing up and restoring system, and sustaining current security updates.

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College-Wide Student Learning Outcomes

The faculty and staff of John A. Logan College are committed to providing students with opportunities to develop learning abilities that will last a lifetime. Graduates will be prepared to succeed in their personal and professional lives because of achieved competence in the following student learning outcomes. In this course, students will be assessed in the following learning outcome:

NA	Communication: Students express thoughts, ideas, and feelings in both written and oral modes.
NA	Critical Thinking: Students apply a rational and methodical approach to problem solving based on use of appropriate evidence.
NA	Cultural and Global Awareness: Students demonstrate an understanding of the influence of culture and society.
NA	Information Literacy: Students locate, evaluate, retrieve, organize, create, and disseminate information.
NA	Quantitative Reasoning: Students use and understand numbers to interpret, evaluate, and express information in quantitative terms.

Topic Outline

Unit 1: Introducing Active Directory
 Unit 2: Managing OUs and Active Directory Accounts
 Unit 3: User and Service Account Configuration
 Unit 4: Configuring Group Policies
 Unit 5: Managing Group Policies
 Unit 6: Domain Controller and Active Directory Management
 Unit 7: Configuring Advanced Active Directory 8. *Configuring TCP/IP*
 Unit 8: Implementing Active Directory Certificate Services
 Unit 9: Implementing Identity Solutions

Course Schedule

Hands-on lab guidelines are provided at the end of the syllabus.

Week	Unit	Assignments
Week 1	Unit 1: Introducing Active Directory	Lab Simulation 1-1, 1-2 Live Virtual Machine Labs 1-1 Unit 1 Quiz (D2L)
Week 2	Unit 2: Managing OUs and Active Directory Accounts	Lab Simulation 2-1 Live Virtual Machine Labs 2-1 Unit 2 Quiz (D2L) Chapter 2 Hands-on lab: Bulk Import of Users & Groups into AD via PowerShell (CAE KU Operating Systems Administration, Objective 1)

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Week 3	Unit 3: User and Service Account Configuration	Lab Simulation 3-1 Live Virtual Machine Labs 3-1 Unit 3 Quiz (D2L) Chapter 3 Hands-on lab: Configure Appropriate Account & Authentication Policies in AD (CAE KU Operating Systems Administration, Objective 2)
Week	Unit	Assignments
Week 4	Unit 4: Configuring Group Policies	Lab Simulation 4-1 Live Virtual Machine Labs 4-1 Live Virtual Machine Labs 4-1, 4-2, 4-3
Week 5	Unit 4: Configuring Group Policies (continued)	Continue with Lab Simulation 4-1 Live Virtual Machine Labs 4-1 Live Virtual Machine Labs 4-1, 4-2, 4-3 Unit 4 Quiz (D2L) Chapter 4 Hands-on lab: Configure Auditing Object Access (CAE KU Operating Systems Administration, Objective 3)
Week 5	Study Guide Exam 1	Study Guide Exam 1 (D2L)
Week 6	Exam 1	Exam 1 (D2L)
Week 7	Unit 5: Managing Group Policies	Lab Simulation 5-1 Live Virtual Machine Labs 5-1 Unit 5 Quiz Chapter 5 Hands-on lab: Installing Patches & Updates (CAE KU Operating Systems Administration, Objective 5)
Week 8	Unit 6: Domain Controller and Active Directory Management	Lab Simulation 6-1 Live Virtual Machine Labs 6-1 Chapter 6 Hands-on lab: Creating a System State Backup & Restoring from a System State Backup (CAE KU Operating Systems Administration, Objective 4)
Week 9	Unit 7: Configuring Advanced Active Directory	Lab Simulation 7-1 Live Virtual Machine Labs 7-1, 7-2, 7-3, 7-4, 7-5
Week 10	Unit 7: Configuring Advanced Active Directory (continued)	Continue with Lab Simulation 7-1 Live Virtual Machine Labs 7-1, 7-2, 7-3, 7-4, 7-5

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		Unit 7 Quiz (D2L)
Week 11	Unit 8: Implementing Active Directory Certificate Services	Lab Simulation 8-1 Live Virtual Machine Labs 8-1, 8-2, 8-3, 8-4
Week 12	Unit 8: Implementing Active Directory Certificate Services (continued)	Continue with Lab Simulation 8-1 Live Virtual Machine Labs 8-1, 8-2, 8-3, 8-4 Unit 8 Quiz (D2L)
Week 13	Unit 9: Implementing Identity Solutions	Lab Simulation 9-1 Live Virtual Machine Labs 9-1, 9-2 Unit 9 Quiz
Week 14	Study Guide Exam 2	Study Guide Exam 2 (D2L)
Week 15	Exam 2	Exam 2 (D2L)
Week 16	Finals	

Method of Presentation

Lecture/Demonstration

Discussion

Simulations

Method of Evaluation

1 Course Information Quiz @ 20 points	20
9 Quizzes @ 10 points each	90
9 Unit Lab Simulations @ 10 points each	90
9 Unit Live Virtual Machine Labs @ 20 points each	180
5 Hands-on Labs @ 50 points each	250
2 Exams @ 100 points each	200
Total	830

Grading Scale:

A: 90% - 100%

B: 80% – 89%

C: 70% - 79%

D: 60% – 69%

F: 0% – 59%

Specific Course Requirements

1. **Course Information Quiz:** There will be one quiz **in D2L** covering the information contained in the course syllabus and course information document. That quiz will be worth 20 points.

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2. Quizzes: There will be 9 quizzes during the semester **in D2L**, one per unit. Each will be worth 10 points.
3. Lab Simulations: There will be 9 lab simulation units during the semester **in MindTap**. Screen shots or print screen captures of completed labs must be submitted to the appropriate D2L Dropbox. These will count for 10 points per unit. All simulations must be completed at 100% to receive the 10 points for that unit.
4. Labs: There will be 9 lab units during the semester **in MindTap**. Screen shots or print screen captures of completed labs must be submitted to the appropriate D2L Dropbox. These will count for 20 points per unit. All labs must be completed at 100% to receive the 20 points for that unit.
5. Hands-on Labs: There will be 5 hands-on labs during the semester in D2L. Screen shots or print screen captures of completed labs must be submitted to the appropriate D2L Dropbox. These will count for 50 points per lab.
6. Exams: There will be 2 exams during the semester **in D2L**. Each exam will be worth 100 points.

Student Responsibilities: The student is required to read and study the textbook materials. Students are responsible for all discussion, assignments, and announcements made in class and posted on the course Web site. **Note: All inquiries/questions should be directed to the instructor via e-mail. A response time of 24 hours Mon. – Fri. by noon and 48 hour response time Fri. noon – Sun. will be observed by both the instructor and students.**

Academic Dishonesty: Academic dishonesty will not be tolerated. If it is found that a student has been dishonest regarding academics, a zero will be given for said exercise, assignment, project, or test. In addition, academic dishonesty may result in expulsion, suspension, probation, or reprimand by the vice-president for administration. Please refer to Article IV, p. 34 of the John A Logan College's *Students Rights and Responsibilities: A Code of Conduct* publication.

Recording of lectures: You may not tape record any part of the lectures without the written permission from the instructor.

Class Conduct: Students are to behave in a respectful manner while in the classroom. Respect should be given to the classroom instructor, classmates, and classroom activities. Students should not engage in activities that will distract from the learning environment. Therefore, the following conduct must be followed:

- Students are to give the instructor/presenter their full attention during presentations.

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- Students should not be working on anything other than class material during class time.
- Students should not be surfing the Internet, checking e-mail, instant messaging, playing games, etc., during class time.
- Personal electronic device activity such as: cell phones, laptops, PDA's, iPods, etc., are not permitted in the classroom without prior permission.
- Software should not be disabled on classroom computers.

If, during lab time, all assigned class work has been completed and submitted for grading, the students may engage in other school related activities while in the computer lab. However, under **NO** circumstances should a student be doing anything other than what the instructor is presenting during lectures.

If students engage in activities contrary to the above, the following procedures will be adhered to:

- First Offense – students will be warned and counted absent for the day.
- Second Offense – students will be asked to leave the classroom with no questions asked and will lose all attendance points for the class.
- Third Offense – students will be asked to leave the classroom and will not be allowed back until they have met with the department chair. Students could at this time, be subject to expulsion from the class.

Additional College Information and Resources

Please see the [JALC Syllabus Attachment](#)

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