

COURSE DESCRIPTION:

This course will provide the student with a general background in networking concepts, procedures and skills necessary in a computer network environment. This course is designed to familiarize the student with an overview of network topologies, physical network architecture, various networking operating systems and a brief introduction into Microsoft Active Directory. This class will also provide the student with necessary skills in troubleshooting and help desk topics necessary for the network technician and software specialist. **Spring semester only.**

PREREQUISITES: None

COURSE OBJECTIVES:

1. Describe the principal features of the Microsoft Windows 2003.
2. Understand the importance of managing a network.
3. Identify the job skills necessary to becoming a network administrator.
4. Identify and describe the hardware and software components of a network.
5. Identify the tools used to perform common administrative tasks.
6. Describe and develop user accounts of Windows 2003.
7. Describe and manage the types of group accounts and the principal security features of Windows 2003.
8. Describe the features of the common network protocols used in Windows 2003.
9. Describe the fundamentals of TCP/IP.
10. Identify procedures to troubleshoot and problem solve.

COURSE OUTLINE:

User Support

1. Input, Process, Output
2. Making Decisions
3. Repeating Actions
4. Arrays
5. Graphics and Procedures
6. Hands on Introduction to Visual Basic.Net
7. Variables and Expressions
8. Controlling Execution

Data Communications

1. Introduction to Computer Networks and Data Communications
2. Fundamentals of Data and Signals
3. Conducted and Wireless Media
4. Making Connections
5. Multiplexing: Sharing a Medium
6. Errors, Error Detection and Error Control
7. Local Area Networks: The Basics
8. Local Area Networks: Internetworking
9. Local Area Networks: Software and Support System
10. Introduction to Metropolitan Area Networks and Wide Area Networks
11. The Internet

12. Telecommunications Systems
13. Network Security
14. Network Design and Management

COURSE REQUIREMENTS:

The student is required to read and study the textbook material. Students are responsible for all discussion, assignments, and announcements made in class and posted on the course Web site.

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.
- 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, lap tops, 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 be counted absent for the day.
 - Third offense – students will be asked to leave the classroom, will be counted absent for the day, 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.
1. Attendance. Each student will be given 50 pts. with each absence resulting in a 3 point deduction. Attendance will be taken at the beginning of each class so any student coming in late will be considered absent. Attendance will be 15% of your grade.
 2. Projects/Assignments. There will be several lab assignments and group projects given during the semester. All labs must be turned in by the due date to receive full credit. **NO LATE ASSIGNMENTS WILL BE ACCEPTED!!!**

3. Exams. There will be three exams given during the semester. All exams will be announced in advance. **There will be NO make-up exams**. If a student arrives 10 past the hour of the beginning of class they will not be permitted to take the exam.

The grading scale for exams will be as follows:

A	=	90 – 100
B	=	80 – 89
C	=	70 – 79
D	=	60 – 69
E	=	59 and below

4. Quizzes. There will be several quizzes during the semester. There will be NO makeups given. The lowest quiz grade will be dropped. All quizzes will be announced in advance. The grading scale is the same as for exams.
5. Final. A comprehensive final will be given at the end of the semester. If the student has an A at this time the final will be optional. The grading scale for the final will be the same as for exams and quizzes. The final will be during finals week.

Student Success Center. Tutors may be obtained through the Student Success Center. Contact the staff in C219 if this service is desired. John A. Logan College will make reasonable accommodations for students with documented disabilities under Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990. Any student with a disability that may have some impact on work in this class, who feels she/he needs an accommodation, should make an appointment with the Coordinator of Services for Students with Disabilities on campus, Jennifer Frost, Room C219B, Ext. 8516. Before services can be provided, this advisor must determine eligibility and arrange appropriate academic adjustments. ***It is the student's responsibility to register in advance of a school term with this office and to turn in a schedule each term to ensure that there is every opportunity for success in this class.***

English Writing Center/Tutoring. For assistance with writing assignments in any college course, students are encouraged to visit "The Write Place" in Room E109. English instructors are available for one-on-one tutoring each semester during hours posted at the center.

Financial Aid. Students who receive financial assistance and completely withdraw from classes prior to 60% of the semester being completed (approximately 2-3 weeks after midterm) could be responsible to return a portion of their Federal Pell Grant award. Prior to withdrawing from courses, students should contact the Financial Aid Office.

Course Withdrawal Information. It is expected that you will attend this class regularly. If you stop attending for any reason, you should contact your advisor and withdraw officially to avoid the posting of a failing grade (an E) to your transcript. It is also advisable to discuss the situation with your instructor before dropping.

METHOD OF EVALUATION:

Final grades for the course will be determined as follows:

Attendance	15%
Projects/Assignments	15%
Quizzes	15%
Exams	45%
Final	10%

METHOD OF PRESENTATION:

2 hours of classroom lecture per week
2 hours of lab work and demonstration per week

TEXT:

TBA

Materials: USB Flash drive & 3 inch binder

INSTRUCTOR: Shane Bishop
Office: E107B
Ext.: 8544
E-mail: shanebishop@jalc.edu

DATE: Spring, 2008

John A. Logan College Telephone Numbers

Cartersville and Williamson County.....	(Operator)	985-3741
	(Direct Extension Access)	985-2828
Carbondale and Jackson County	(Operator)	549-7335
	(Direct Extension Access)	457-7676
Du Quoin		542-8612
West Frankfort.....		937-3438
Crab Orchard, Gorham, and Trico Areas		1-800-851-4720
TTY (hearing-impaired access)		985-2752

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