

BOROUGH OF MANHATTAN COMMUNITY COLLEGE

City University of New York

Department of Computer Information Systems

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Title of Course

**Telecommunication Networks II/Windows XP
Spring 2012**

CIS 445

Class hours: 3

Lab hours: 2

Credits: 4

Course Description

This is a second course in telecommunication networking which will further develop those skills gained in CIS 345. This course provides a comprehensive introduction of windows operating systems XP and local area network.

It will cover implementation and management of Windows XP and LAN. Students will gain practical skills of installation and configuration of Windows XP and LAN equipments. Students are expected to complete several assignments preparing to MCP professional IT certification.

Prerequisites

Basic skills- ENG 095; ESL 095; ACR 095; MAT 012/ 051; CSC 345 (Telecommunication Network I) or departmental approval

Learning Outcomes and Assessment

After completing this course, students will be able to:

- **Outcome:** Explain different types of operating systems
Assessment: Lab exercises, homework and exam questions
- **Outcome:** Install and implement Windows XP Professional
Assessment: Home work, short essays and exam questions
- **Outcome:** Configure and manage Windows XP Professional
Assessment: Lab exercises, homework and exam questions
- **Outcome:** Identify and configure physical and logical components of LAN
Assessment: Lab exercises and homework
- **Outcome:** Configure and manage router, switch and PIX
Assessment: Lab exercises, case study project and exam questions

General Education Outcomes and Assessment

- **Quantitative Skills** – Students will use quantitative skills and concepts and methods of mathematics to solve problems
Assessment: Use formulas, graphs and concepts of mathematics to solve problems in assignments
- **Information and Technology Literacy** – Students will collect, evaluate and interpret information and effectively use information technologies
Assessment: Use security hardware and software to complete assignments and lab exercises

Required Text & Readings

Textbook: **70-270 MCSE Guide to Windows XP Professional Certification Edition, Second Edition, Enhanced**
Author: **Tittle, Stewart, Melendez, McCahn**
Publisher: **Course Technology**
ISBN: **0-619-21751-0**

ISBN-13: 9780619217518

Other Resources

Flash drives and CDs are needed for use during Lab.
Use of Technology (if applicable)

Evaluation & Requirements of Students

First Exam	25%
Midterm	25%
Final Exam	25%
Quiz/Homework	10%
<u>Project</u>	<u>15%</u>
Total	100%

Outline of Topics:

1. Microcomputer and Networking Basics
 - Hardware, Software and operating system concepts
 - Network components
 - LAN/MAN/WAN
 - Networking under Windows XP
2. Introduction to Windows XP
 - Comparison between Windows 95, Windows NT, Windows 2000 and Windows XP
 - The Windows XP Environment
 - Windows XP hardware requirements
 - Hardware resource settings
 - Features of Windows XP
 - Introduction to Windows XP Active Directory
 - Windows XP architecture
3. Installing Windows XP
 - Upgrading versus installing
 - Booting multiple operating systems
 - Planning the installation
 - Setup options
 - Removing Windows XP
4. Using the Systems Utilities
 - Control panel overview
 - Microsoft management console
 - Administrative tools
 - PCMCIA or PC cards
5. Managing Windows XP Files Systems and Data Storage
 - File storage basics
 - File systems
 - Disk management actions
 - Creating and managing shared folders
 - Managing NTFS permissions
 - Distributed file system
6. Users, Groups, Profiles and Policies
 - Creating users and group accounts
 - Managing users and group accounts

- User profiles
 - Local security policies
 - Troubleshooting cached credentials
7. Windows XP Security Features
- Security policies
 - Encryption
 - Password management
 - Access control
 - Using security configuration manager tools
 - Auditing access to resources and analyzing security logs
8. Windows XP Disaster Recovery and Protection
- Planning for disaster recovery
 - Backup methods and scheduling
 - Automated system recovery
 - Advanced startup options
 - The recovery console
9. Implementing and Managing Printers and Faxes
- Installing and sharing printer resources
 - Configuring and managing printer resources
 - Managing the print server
 - Printers and the Web
 - Troubleshooting printing problems
10. Monitoring Windows XP Performance
- Task manager
 - Event viewer
 - Performance console
 - Configuring and managing services
 - Optimizing performances for mobile Windows XP users
11. Windows XP Registry
- Windows XP registry overview
 - Windows XP registry keys
 - Registry editors
 - Windows XP resource kit registry tools
12. Troubleshooting Windows XP
- General principles of troubleshooting
 - Troubleshooting tools
 - Applying service packs and hot fixes
 - Microsoft troubleshooting references
13. Implementing and Managing routers, switches and PIX
- Installing routers, switches and PIX
 - Configuring and managing routers, switches and PIX
 - Troubleshooting routers, switches and PIX

College Attendance Policy:

At BMCC, the maximum number of absences is limited to one more hour than the number of hours a class meets in one week. For example, you may be enrolled in a three-hour class. In that class, you would be allowed 4 hours of absence (not 4 days). In the case of excessive absences, the instructor has the option to lower the grade or assign an F or WU grade.

Academic Adjustments for Students with Disabilities:

Students with disabilities who require reasonable accommodations or academic adjustments for this course must contact the Office of Services for Students with Disabilities. BMCC is committed to providing equal access to all programs and curricula to all students.

BMCC Policy on Plagiarism and Academic Integrity Statement:

Plagiarism is the presentation of someone else's ideas, words or artistic, scientific, or technical work as one's own creation. Using the idea or work of another is permissible only when the original author is identified. Paraphrasing and summarizing, as well as direct quotations, require citations to the original source. Plagiarism may be intentional or unintentional. Lack of dishonest intent does not necessarily absolve a student of responsibility for plagiarism.

Students who are unsure how and when to provide documentation are advised to consult with their instructors. The library has guides designed to help students to appropriately identify a cited work. The full policy can be found on BMCC's web side, www.bmcc.cuny.edu. For further information on integrity and behavior, please consult the college bulletin (also available online).