

Syllabus
SW 372 Microcomputers and Home Networking
School for New Learning
Winter 2009

Instructor – Zaya Khananu; **E-mail:** zkhananu@depaul.edu

Location: O'Hare campus

Class Date/Time: Thursdays, from 6:30 PM to 9:30 PM

Credit Hours: 4

Course Description: In his course, student will learn more about personal computer; exploring Windows PC and Mac operating systems. Introducing to common personal computer applications software in MS Office 2007: Word, Excel, Power Point, Access and Outlook. Introducing to home networks and wireless systems, developing basic technical skills in designing, managing, back up, and securing home networks. After completing this course, the student should be able to demonstrate and gain knowledge of the following:

- ❖ Demonstrate their knowledge of Windows and Mac operating systems, managing data files and application programs, and basic technical skills and troubleshooting.
- ❖ How to use and operate personal application software in MS Office 2007; (Word, Excel, PowerPoint, and Access) to create, change, modify, and produce integrated reports or projects.
- ❖ Surfing the Internet, using different web browsers to access information using Windows and Mac environment, and evaluate its usefulness in solving problems or situations as part of a project for class. This skill and knowledge is transferable to personal or professional lives.
- ❖ Design, install, configure, secure and manage home or small business networks. Learning how to connect the home network to the Internet.
- ❖ Identify the major components of a network system, including clients and servers, network interface cards (NICs), internetworking devices, media, and topologies
- ❖ Home wireless network configuration, add and secure your wireless home network.
- ❖ Learning and practicing the logic of desktop remote access.
- ❖ Learning strategies of back up data and home system security.

Required textbook: 2007 Microsoft Office System, Official academic Course, William J. Pesce and Peter Booth Wiley
<http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470442263.html>

Handouts will be provided in Class for Home Networks, Network Security, and Wireless systems

Course Competencies:

- ✓ **S-1-D** Student will design and plan an information technology solution for a problem by collecting data, analyzing it, evaluating possible solutions based on facts, figures, charts, and any other supporting details to recommend a hardware, software, procedure, or personal answer to the given problem. Student can provide technical competency in planning, installation, configuration, and maintenance of home computer networking, with knowledge of hardware implementations, data recovery, wireless connectivity, and home network security.

- ✓ **S-5** Student will use current information technology for integrated solutions to problems. In this course, you will use the common personal application software in Ms Office 2007 suite in showing a complete comprehension of the structure of current MS Office Suite technology. In a paper for this competence, identify and solve a problem or issue of interest that requires an Integrated MS Office Suite-based solution.

- ✓ **FX** Student will use the MS Office Suite as a tool to solve a business decision problem - or student can produce and show a portfolio using office tools as an integrated solution to a business problem. We will learn how to tap into that suite and use it effectively at work.

Grading:

Homework or Lab assignments 30%

Network topics Quiz 10%

Midterm Paper 25%

Final Presentation 25%

Class Participation (Including Attendance) 10%

Grading Scale:

A = 91 – 100

A- = 88 – 90

B+ = 85 – 87

B = 81- 84

C+ = 78 - 80

C = 74 – 77

C- = 70 – 73

D = 65 – 69

F = < 6

Course Map

- Week 1** Introduction: course and syllabus overview and introducing ourselves. A brief overview of personal computer, Windows PC and Mac, this includes OS, applications, Internet browsers, and components of the computer.
- Week 2** Personal computer application software, MS Office 2007 for Windows, introduction to word processing using Word 2007
- Week 3** Introduction to Excel 2007, basics and intermediate

Week 4 Introduction to power point 2007, basics and intermediate
Week 5 Introduction to Access 2007, basics.

Midterm Project Due, S-5 or FX competence

Week 6 Using the Internet, web browsers, this includes URL, general settings, organizing favorites and search engine. Introduction to Outlook 2007 (if there is enough time)
Week 7 Introduction to Home Networking, concepts, infrastructure, type of connections, equipments
Week 8 Continuing in Networking design, remote access and security.
Week 9 The basics of Wireless, standards, wireless network equipments, WLAN and security
Week 10 Review and in class final presentation, project due, S-1-D or FX