

ILLINOIS VALLEY COMMUNITY COLLEGE



COURSE OUTLINE

DIVISION: Workforce Development

COURSE: CSO 2202 - Advanced Windows

Date: Spring 2015

Credit Hours: 3

Prerequisite(s): None

Delivery Method: **Lecture** **2 Contact Hours** (1 contact = 1 credit hour)
 Seminar **0 Contact Hours** (1 contact = 1 credit hour)
 Lab **2 Contact Hours** (2 contact = 1 credit hour)
 Clinical **0 Contact Hours** (3 contact = 1 credit hour)
 Online
 Blended

Offered: **Fall** **Spring** **Summer**

IAI Equivalent –**Only for Transfer Courses**-go to <http://www.itransfer.org>:

CATALOG DESCRIPTION:

This class will cover the latest release of Windows for the corporate workstation. Topics include installing and upgrading the operating system, configuring hardware and applications, network connectivity, access to resources, backup and recovery options, and mobile users. Monitoring and maintaining systems is also covered. At the end of the class, students are prepared to test for the Microsoft 70-680 exam.

GENERAL EDUCATION GOALS ADDRESSED

[See the last page of this form for more information.]

Upon completion of the course, the student will be able:

[Choose those goals that apply to this course.]

- To apply analytical and problem solving skills to personal, social and professional issues and situations.
- To communicate orally and in writing, socially and interpersonally.
- To develop an awareness of the contributions made to civilization by the diverse cultures of the world.
- To understand and use contemporary technology effectively and to understand its impact on the individual and society.
- To work and study effectively both individually and in collaboration with others.
- To understand what it means to act ethically and responsibly as an individual in one's career and as a member of society.
- To develop and maintain a healthy lifestyle physically, mentally, and spiritually.
- To appreciate the ongoing values of learning, self-improvement, and career planning.

EXPECTED LEARNING OUTCOMES AND RELATED COMPETENCIES:

[Outcomes related to course specific goals.]

Upon completion of the course, the student will be able to:

1. Install a new copy, an upgrade, and patches to the Windows workstation operating system
2. Use standard Windows workstation tools to tweak the operating environment
3. Setup users, groups, profiles, and policies
4. Implement security features
5. Install a peer-to-peer network and join a client/server network
6. Set up printing
7. Execute performance testing and tuning
8. Set up a virtual environment
9. Prepare for disaster recovery

Outcome 1 - Upon completion of the course, the student will be able to install a new copy, an upgrade, and patches to the Windows workstation operating system.

Competency 1.1 – The student will be able to install a new copy of the latest Windows operating system on a computer without an operating system currently installed.

Competency 1.2 – The student will be able to install an upgrade from a previous Windows version to the latest Windows operating system.

Competency 1.3 – The student will be able to apply service patches to an existing Windows operating system.

Outcome 2 - Upon completion of the course, the student will be able to use standard Windows and third party workstation tools to tweak the operating environment.

Competency 2.1 - The student will be able to use the programs located under the System Tools menu.

Competency 2.2 - The student will be able to use the MMC.

Competency 2.3 - The student will be able to install anti-virus software for a Windows workstation.

Outcome 3 - Upon completion of the course, the student will be able to setup users, groups, profiles, and policies.

Competency 3.1 – The student will be able to add, change, and remove users and groups from the workstation.

Competency 3.2 – The student will be able to add groups to the workstation in order to enforce security.

Competency 3.3 – The student will be able to edit profiles to the workstation in order to enforce security.

Outcome 4 - Upon completion of the course, the student will be able to implement security features.

Competency 4.1 – The student will understand why security is important.

Competency 4.2 – The student will understand how to implement security policies and auditing.

Outcome 5 - Upon completion of the course, the student will be able to install a peer-to-peer network and join a client/server network.

Competency 5.1 – The student will be able to install a peer-to-peer network using NetBEUI protocols.

Competency 5.2 – The student will be able to install a peer-to-peer network using TCP/IP protocols.

Competency 5.3 – The student will be able to use command line tools to test the IPv4 and IPv6 protocol suites.

Competency 5.4 – The student will be able to create a wireless connection.

Competency 5.6 – The student will be able to implement Windows firewall.

Outcome 6 - Upon completion of the course, the student will be able to set up printing.

Competency 6.1 – The student will be able to install a standalone printer.

Competency 6.2 – The student will be able to install a networked printer.

Outcome 7 - Upon completion of the course, the student will be able to execute performance testing and tuning.

Competency 7.1 – The student will understand why performance testing and tuning is necessary.

Competency 7.2 – The student will perform baseline performance testing and tuning.

Outcome 8 - Upon completion of the course, the student will be able to set up a virtual environment.

Competency 8.1 – The student will understand the need for dual boot and virtual desktop environments.

Competency 8.2 – The student will perform the tasks necessary to make a workstation a dual boot workstation.

Competency 8.3 – The student will install virtual operating environment.

Outcome p - Upon completion of the course, the student will be able to prepare for disaster recovery.

Competency 9.1 – The student will understand the need for backups and how to implement them.

Competency 9.2 – The student will perform the task necessary to backup, repair, rollback, and restore a complete or partial operating system.

COURSE TOPICS AND CONTENT REQUIREMENTS:

The types of Windows Workstations
Installing a Windows Workstation Operating System
Upgrading a Windows Workstation Operating System
Using Windows Tools
Applying Service Patches
Installing Anti-virus Software
Users, Groups, Profiles, and Policies
The Windows Registry
Windows Security
Network Protocols
Printing
Performance Tuning
Disaster Recovery
Virtual Systems

INSTRUCTIONAL METHODS:

Lecture
Demonstration
Laboratory work with computer equipment
Simulation

INSTRUCTIONAL MATERIALS:

MCTS Guide to Microsoft Windows 7 (Exam # 70-680), 1st Edition

Wright/Plesniarski Copyright 2010

ISBN-10:1111309779

ISBN-13:9781111309770

STUDENT REQUIREMENTS AND METHODS OF EVALUATION:

Attend lecture (online) and lab (face-to-face) on a regular basis
Simulation software
Hands-On Lab Activities
Written Exams
Hands-On Exams

OTHER REFERENCES

Course Competency/Assessment Methods Matrix

CSO 2202; Advanced Windows		Assessment Options																															
For each competency/outcome place an "X" below the method of assessment to be used.	Assessment of Student Learning	Article Review	Case Studies	Group Projects	Lab Work	Oral Presentations	Pre-Post Tests	Quizzes	Written Exams	Artifact Self Reflection of Growth	Capstone Projects	Comprehensive Written Exit Exam	Course Embedded Questions	Multi-Media Projects	Observation	Writing Samples	Portfolio Evaluation	Real World Projects	Reflective Journals	Applied Application (skills) Test	Oral Exit Interviews	Accreditation Reviews/Reports	Advisory Council Feedback	Employer Surveys	Graduate Surveys	Internship/Practicum /Site Supervisor Evaluation	Licensing Exam	In Class Feedback	Simulation	Interview	Written Report	Assignment	
	Direct/ Indirect	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	I	I	I	I	D	D							
Assessment Measures – Are direct or indirect as indicated. List competencies/outcomes below.																																	
Outcome 1 - Upon completion of the course, the student will be able to install a new copy, an upgrade, and patches to the Windows workstation operating system.				X	X		X	X						X																			X
Outcome 2 - Upon completion of the course, the student will be able to use standard Windows and third party workstation tools to tweak the operating environment				X	X		X	X						X																			X
Outcome 3 - Upon completion of the course, the student will be able to setup users, groups, profiles, and policies.				X	X		X	X						X																			X
Outcome 4 - Upon completion of the course, the student will be able to edit the Windows registry.				X	X		X	X						X																			X

CSO 2202; Advanced Windows		Assessment Options																														
For each competency/outcome place an "X" below the method of assessment to be used.	Assessment of Student Learning	Article Review	Case Studies	Group Projects	Lab Work	Oral Presentations	Pre-Post Tests	Quizzes	Written Exams	Artifact Self Reflection of Growth	Capstone Projects	Comprehensive Written Exit Exam	Course Embedded Questions	Multi-Media Projects	Observation	Writing Samples	Portfolio Evaluation	Real World Projects	Reflective Journals	Applied Application (skills) Test	Oral Exit Interviews	Accreditation Reviews/Reports	Advisory Council Feedback	Employer Surveys	Graduate Surveys	Internship/Practicum /Site Supervisor Evaluation	Licensing Exam	In Class Feedback	Simulation	Interview	Written Report	Assignment
	Direct/ Indirect	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	I	I	I	I	D	D						
Assessment Measures – Are direct or indirect as indicated. List competencies/outcomes below.																																
Outcome 5 - Upon completion of the course, the student will be able to install a peer-to-peer network and join a client/server network.				X	X		X	X						X														X				X
Outcome 6 - Upon completion of the course, the student will be able to set up printing.				X	X		X	X						X														X				X
Outcome 7 - Upon completion of the course, the student will be able to execute performance testing and tuning.				X	X		X	X						X														X				X
Outcome 8 - Upon completion of the course, the student will be able to set up a virtual environment.				X	X		X	X						X														X				X
Outcome 9 – Upon completion of the course, the student will be able to prepare for disaster recovery.				X	X		X	X						X													X					X