



Course Outcomes Form Northwest Indian College

All hand-outs are posted on the faculty website at www.nwic.edu/faculty (follow the Assessment link)

Before completing this form, please refer to the *Instructions for Completing the Course Outcomes Form*. Please submit this form electronically.

Last date this form was updated or edited	11/03/07
Course Number (e.g., ENGL 101)	CMPS 270
Course Name (e.g., English Composition I)	Hardware II
List all instructor(s) who participated in creating and approved these course outcomes (please consult with at least one other person)	Gary Brandt
List the main textbooks, readings or other resources used in this course (including title, year and publisher)	Managing and Troubleshooting PC, 2004, McGraw Hill (text and lab manual)
	Internet
	Instructor Handouts

A. **NWIC outcomes:** From the *List of NWIC Outcomes*, select the most important outcomes you assess in this course (at least one NWIC outcome must be chosen).

NWIC outcome # (e.g., “Written communication: 2a. write standard English”)	Instructional Activities: How will students master this outcome? (e.g., solving problems, group activity)	Assessment/Evaluation Strategies: How will you measure this outcome? (e.g., student presentations, essays)
Written Communication 1. Write in standard English. 2. Write a technical paper using various credible sources.	1. Choose a topic from a provided list 2. Submit a rough draft following the report guidelines 3. Submit a corrected final draft	1. Format follows guidelines 2. References cited properly 3. Spelling and grammar meet acceptable standards

B. Course outcomes: In order of priority, list the most important other learning outcomes for this course that you assess (a maximum of 8).

Other course outcomes: Complete the sentence – As a result of this course, students will be able to...	Instructional Activities: How will students master this outcome? (e.g., solving problems, group activity)	Assessment / Evaluation Strategies: How will you measure this outcome? (e.g., student presentations, essays)
Discuss the feasibility of upgrading an older computer in comparison with the cost of replacing it with a newer model.	<ol style="list-style-type: none"> 1. Contact various local computer vendors and collect information regarding their computer products 2. Search the Internet for computer sellers 3. Compare and contrast the computers from local vendors and Internet vendors 	<ol style="list-style-type: none"> 1. List the parts to build your ultimate computer 2. Research where to obtain the parts to build your ultimate computer. Be certain to include part numbers and prices 3. Chapter Questions and Quiz 4. Daily journal entry
Troubleshoot the hardware components of a desktop computer.	<ol style="list-style-type: none"> 1. Analyze common symptoms and problems associated with each component 2. Provide solutions to troubleshoot and isolate the problems a 3. Perform appropriate repair or replacement. 	Given an non-functioning computer: <ol style="list-style-type: none"> 1. Describe what the symptoms are, 2. List the steps that you used to troubleshoot the computer, 3. Describe what you did, or need to do, to make the computer function again 4. Chapter Questions and Quiz 5. Daily journal entry
Discuss SCSI devices.	<ol style="list-style-type: none"> 1. Install a SCSI device 2. Configure a SCSI device 	<ol style="list-style-type: none"> 1. Install and configure a SCSI device 2. Chapter Questions and Quiz 3. Daily journal entry
Select and install printers.	<ol style="list-style-type: none"> 1. Identify different printer technologies and how they work 2. Diagnose basic printer problems 3. Install printers in a Windows PC. 	<ol style="list-style-type: none"> 1. Install a local printer 2. Install a network printer 3. Share a printer 4. Install a printer requiring a TCP/IP port 5. Chapter Questions and Quiz 6. Daily journal entry
Select and install video cards, and CRT and LCD monitors.	<ol style="list-style-type: none"> 1. Describe how CRT monitors and LCD displays work 2. Select the proper display adapter 3. Install and configure video software 4. Troubleshoot basic video problems 	<ol style="list-style-type: none"> 1. Locate appropriate drivers on the Internet 2. Install and configure video drivers 3. Identify the differences between PCI and AGP video 4. Chapter Questions and Quiz 5. Daily journal entry
Discuss the special configuration needs of portable computers and be aware of the difficulties of upgrading/repairing them.	<ol style="list-style-type: none"> 1. Describe the history of portable PCs 2. Compare and contrast the basic mobile technologies in use today 3. Explain the Power Management settings on a portable computer 4. Explain the pros and cons of cellular connections for accessing modem 	<ol style="list-style-type: none"> 1. Choose one of the Instructional Activities for this subject and write a paper consisting of no more than three paragraphs about your chosen Instructional Activity. 2. Chapter Questions and Quiz 3. Daily journal entry
Create a network using the terminology, cabling, topologies, protocols, configuration, and services necessary to make it function.	<ol style="list-style-type: none"> 1. Describe Network Technologies 2. Work with Network Operating Systems 3. Install and Configure Wired Networks 4. Install and Configure Wireless Networks 5. Troubleshoot Networks 6. Describe the network structure 	<ol style="list-style-type: none"> 1. Create a 2-computer peer-to-peer network 2. Create a 2-computer server-based network 3. Construct a CAT5 patch cable 4. Configure a wireless router 5. Install a wireless NIC card 6. Networking Exercise <ol style="list-style-type: none"> a. Develop a list of questions to

	<p>and functions of the Internet</p> <p>7. Master connecting to the Internet</p>	<p>use when interviewing a customer about requirements for LAN</p> <p>b. Develop requirements list</p> <p>c. Develop list of software and equipment to be used to develop LAN</p> <p>d. Explain and justify choice of software and equipment for solution in an email memo to customer</p> <p>e. Provide clear justification for suggested solution</p> <p>f. Provide pros and cons for suggested solution</p> <p>g. List equipment needed to implement solution</p> <p>7. Chapter Questions and Quiz</p> <p>8. Daily journal entry</p>
Use basic files, commands, and utilities for Windows.	<p>1. Manipulate basic functions of the Operating System</p> <p>2. Manipulate features common to all Windows PCs</p> <p>3. Navigate structure of Windows</p> <p>4. Access the command line interface</p> <p>5. Explain how the command line interface works</p> <p>6. Use the command line to work with drives and directories</p> <p>7. Use the command line to run programs</p> <p>8. Use the command line to work with files</p> <p>9. Give an overview of the Installation/Upgrade of Windows</p> <p>10. Perform the tasks specific to a Windows Installation/Upgrade</p> <p>11. Troubleshoot Common Installation Problems</p> <p>12. Find and use the tools for maintaining and optimizing Windows</p> <p>13. Maintain a healthy Windows system</p> <p>14. Practice important troubleshooting procedures</p> <p>15. Determine the appropriate tools for troubleshooting</p>	<p>1. Successful installation of operating systems</p> <p>2. Successful video operation</p> <p>3. Successful network operation</p> <p>4. Successful sound operation</p> <p>5. Ability to access a networked computer via the command line</p> <p>6. Create and modify users via the command line</p> <p>7. Create a folder and apply NTFS permissions</p> <p>8. Create a MMC for system operation and monitoring</p> <p>9. Chapter Questions and Quiz</p> <p>10. Daily journal entry</p>

C. Please list the NWIC outcomes and course outcomes from above on your syllabus.