

## ITSC 1305 – Introduction to PC Operating Systems (3: 2-2)

**Informal Description:** The world today is now highly computerized. This course introduces students to computer operating systems, including command line and graphical user interfaces

### Textbooks/Reference/Materials

- DOS and the art of the command line, R. Craig Collins (TC Media)
- Optional: a Linux reference, such as Linux for Dummies ISBN 0-471-75262-2
- Optional: a Windows book if you are new to computers, such as Windows for Dummies
- Access to <http://www.templejc.edu/dept/cis/CCollins/Collins.htm>
- floppy disks and another file storage (home computer, removable USB drive, etc.)

### Course Competencies

CIP Code: 11.0101 (Computer and Information Sciences, General)

Course Title: Introduction to PC Operating Systems

Course Level: Introductory

Course Description: A study of personal computer operating systems. Topics include installation and configuration, file management, memory and storage management, control of peripheral devices, and use of utilities.

Learning Outcomes: Install, configure, and maintain the operating system; perform basic file management operations; organize and allocate primary and secondary storage; access and control peripheral devices; and demonstrate the use of utilities.

### COURSE CALENDAR

6 Week Semester	16 Week Semester	Notes	Lecture Topics	Labs
Week 1	Week 1		Syllabus/Orientation	
	Week 2		DOS 1-3	Lab 1 due
	Week 3		DOS 5-6	Lab 2 due
Week 2	Week 4		DOS 7, 10	
	Week 5	Review		Lab 3 due
	Week 6	Test 1	Windows A-C	Lab 4 due
Week 3	Week 7		Windows D-F	Lab 5 due
	Week 8		Windows G-I	Lab 6 due
	Week 9	Review	Windows J	
Week 4	Week 10	Test 2	Linux 5	
	Week 11		Linux 8	Lab 7 due
	Week 12		Linux 9	Lab 8 due
Week 5	Week 13		Future issues	Lab 9 due
	Week 14	Review		
	Week 15	Test 3		Capstone Lab 10 due
Week 6	Week 16	Final		

See course website for current semester's calendar, and holidays

Notes:

## ITSC 1305, Continued

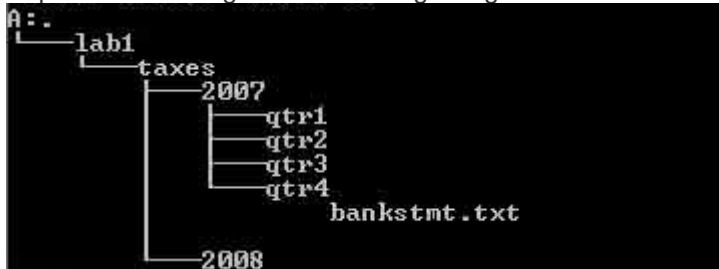
**Course Competencies**

Students will be able to:

- Discuss operating system tasks
- Explain computer terms
- Identify computer components
- Analyze command syntax
- Differentiate DOS command
- Compose DOS command line entries
- Use hierarchical paths
- Demonstrate wildcard usage
- Construct batch files
- Demonstrate replaceable parameters
- Use a graphical interface to accomplish command line tasks
- Compare and contrast DOS and Windows
- Set up modern operating systems
- Compare and contrast Windows and Linux
- Install an operating system
- Evaluate options while choosing operating systems

**Lab Summaries**

1. Duplicate and navigate the following using DOS or the Windows Command Prompt



Zip the lab1 folder, rename as yourname-lab1.zip, and place in the Lab 1 dropbox in D2L

Take the Lab 1 quiz in D2L; the quiz covers the activity

2. Create files and directories, using copy, xcopy, rename, and wildcards. When complete is should resemble

```
A:
test.doc
lab2 <dir>
    homework.txt
    homework.ltr
    test <dir>
lab2bkup <dir>
    test.txt
    test.ltr
    test <dir>
```

Zip the test document, the lab2 folder and the lab2bkup folder, rename as yourname-lab2.zip, and place in the Lab 2 dropbox in D2L;

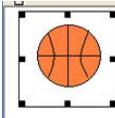
Take the Lab 2 quiz in D2L; the quiz covers the activity

3. Create a test a batch file that can change the prompt, make directories, copy files, etc. Create a test a batch file that can duplicate the function of the move command. Take the Lab 3 quiz in D2L; the quiz covers the activity

**Lab Summaries, continued**

- 4. Use WordPad to record activities in Paint, formatting, Control Panel, shortcuts, and My Computer. Save the WordPad document as yourname-lab4.rtf, and zip. Rename as yourname-lab4.zip, and place in the Lab 4 dropbox in D2L;

The final WordPad document should resemble the following:



a snippet of a Paint image



a screenshot of the Mouse Control Panel



a screenshot of file copies, renamed and shortcuts some formatted text

**FORMATTED TEXT**

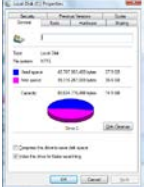
Take the Lab 4 quiz in D2L; the quiz covers the activity

- 5. Use WordPad to record activities in customization, My Computer, properties, and Programs. Save the WordPad document as yourname-lab5.rtf, and zip. Rename as yourname-lab5.zip, and place in the Lab 5 dropbox in D2L;

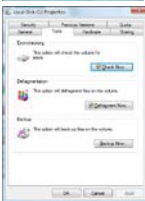
The final WordPad document should resemble the following:



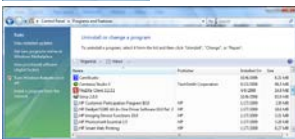
a screenshot of the Network icon on the desktop



a screenshot of the general tab of a Drive's properties



a screenshot of the tools tab of a Drive's properties



a screenshot of the Programs control panel for uninstall

Take the Lab 5 quiz in D2L; the quiz covers the activity

- 6. Use Excel and Word to link a chart, explore Sharing, Mapped Network Drives, and the Network. Save the Word and Excel documents as yourname-lab6, and zip. Rename as yourname-lab6.zip, and place in the Lab 6 dropbox in D2L; Take the Lab 6 quiz in D2L; the quiz covers the activity

## Lab Summaries, continued

7. Use Linux to create files and folders, navigate the folders, remove the files and folders. Explore additional Linux commands.  
Take the Lab 7 quiz in D2L; the quiz covers the activity
8. Install and explore various Linux versions, and graphical user interfaces.  
Take the Lab 8 quiz in D2L; the quiz covers the activity
9. Create a web page in Linux. Save the documents in a folder, and archive as as zip. Rename as yourname-lab9.zip, and place in the Lab 9 dropbox in D2L; There is no quiz for this activity.

Capstone lab, lab 10.

To allow the student to evaluate the operating systems covered in class, based on what they learned. This isn't a research paper, you use your notes, not the Internet. Due the last class period before finals.

The paper must be typed using these guidelines: (Plagiarism will result in a '0' for this lab)

- Title/Cover Sheet
- A 1000+ word report created using Microsoft Word. Will be about 3 pages, double spaced. Must be double spaced using a 12-point Times font and no more than 1 inch margins.
- Must include an introduction and overview.
- Must include a bold, clearly labeled section on the strengths of DOS
- Must include a bold, clearly labeled section on the weaknesses of DOS
- Must include a bold, clearly labeled section on the strengths of Windows
- Must include a bold, clearly labeled section on the weaknesses of Windows
- Must include a bold, clearly labeled section on the strengths of Linux
- Must include a bold, clearly labeled section on the weaknesses of Linux
- The conclusion should include a recap of the high points of the paper, to bolster an expressed opinion of which OS is best for a situation, based on what you learned in class.

Content	points
Intro	3
Overview	5
DOS Weakness: <b>BOLD</b> Label	3
DOS Weakness Content	5
DOS Strength: <b>BOLD</b> Label	3
DOS Strength Content	5
Windows Weakness: <b>BOLD</b> Label	3
Windows Weakness Content	5
Windows Strength: <b>BOLD</b> Label	3
Windows Strength Content	5
Linux Weakness: <b>BOLD</b> Label	3
Linux Weakness Content	5
Linux Strength: <b>BOLD</b> Label	3
Linux Strength Content	5
Recap	5
Conclusion	10
Delivery	points
Coversheet	3
1000+ words, 12 pt font	20
Double spaced	3
1" Margins	3
Total	100