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**ABSTRACT**

This volume is one of three in a self-paced computer literacy course that gives allied health students a firm base of knowledge concerning computer usage in the hospital environment. It also develops skill in several applications software packages. Volume I contains materials for a three-hour course. A student course syllabus provides this information: credit hours, catalog description, prerequisites, required texts, instructional process, objectives, student evaluation, and class schedule. The student guide consists of a sheet for each of the 16 units outlining the contents, objectives, rationale, learning activities, vocabulary, and evaluation. Unit topics are information on computer systems, WordStar, WordStar applications for health care professionals, Lotus 1-2-3, Lotus 1-2-3 applications for health care professionals, dBASE III, and dBASE applications for health care professionals. A student laboratory guide provides this information for each of the 14 assignments: associated unit, objectives, required materials, learning activities, steps, and evaluation. The instructor's course syllabus outlines prerequisites, required texts, references, required equipment and materials, instructional process, student evaluation, and test items for the textbook. (YLB)

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Curriculum Improvement Project  
 Region II  
**MICROCOMPUTER APPLICATIONS  
 FOR HEALTH CARE  
 PROFESSIONALS**  
 Developed by Lucy Bruce

**VOLUME I**

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Project Director: Cheryl L. Willis, Ph.D.

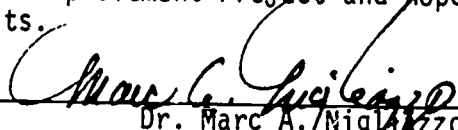
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## FOREWORD

Galveston College is not unlike other small community colleges trying to keep its curriculum in sight of rapidly changing technologies. We are unique, however, in that we were given an opportunity by the Coordinating Board of the State of Texas through a grant of Carl D. Perkins Act vocational funds to undertake a major curriculum improvement project which had as its focus curricula for accounting, the allied health professions, microcomputer applications, and office occupations. The course curriculum that you have before you is one of nine courses or modules that were developed from this project. What cannot be immediately evident to you, though, is the sense of cooperation that governed the various phases of the project. The resulting benefits to the College, its faculty, and its staff as a result of this project, were many, including increased knowledge of the curriculum improvement process, increased knowledge of the ramifications of networking microcomputers, increased awareness of the vocational programs of other community colleges, and increased awareness of the need for staff development opportunities. The enduring impact of this project will come in the months ahead as our instructors, and hopefully other instructors across Region II and the state, implement the curricula. We at Galveston College are proud of the results of the Curriculum Improvement Project and hope that your college will share the benefits.

  
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Dr. Marc A. Migliorizzo  
Vice President and Dean of Instruction  
June 30, 1987

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Copies of the above course curriculum are available for a nominal cost from: Division of Business and Technology  
Galveston College  
4015 Avenue Q  
Galveston, TX 77550

## A C K N O W L E D G M E N T S

This course curriculum represents but one of the many final products of the Curriculum Improvement Project. I want to take this opportunity to thank those individuals who worked so hard together to bring this project to a successful conclusion. To the administration and the Board of Regents of Galveston College I wish to express my appreciation for their willingness to accept the challenges and risks associated with a project of this magnitude and for having the forethought to see its benefits for the college and the community. To the support staff in the Business Office and the Office of Planning and Development, thank you for your patience and helpfulness in providing the project staff with everything we needed-- yesterday. To Karla Back, Assistant Dean of the Division of Business and Technology, for her constant encouragement of the vision of the project, I will be forever grateful. My most heartfelt thanks, though, go to the project team--all of the curriculum writers who gave 110 percent effort whenever it was needed; the various editors and word processors who helped us along the way; Paul Fama, Research Associate, who provided constancy and consistency; and Mary James, project secretary, who kept us all sane.

Galveston, Texas  
June 30, 1987

Cheryl L. Willis, Ph.D.  
Project Director

## P R E F A C E

The work of the health care professional will be changed by the integration of the microcomputer into the functioning of the medical field. Microcomputer Applications for Health Care Professionals is a self-paced computer literacy course which gives the allied health student a firm base of knowledge concerning computer usage in the hospital environment, as well as skill in several applications software packages. Because it may be impossible to fit an additional three-hour course into your two-year curriculum, this curriculum was also divided into three one-hour courses--word processing applications, spreadsheet applications, and database applications. "Unbundling" this course will also make it more attractive as a continuing education course. Volume I contains materials for the three-hour course, and Volume II contains materials for each of the 3 one-hour courses. Each course curriculum contains four parts--student's course syllabus, student's reading and laboratory guides for each unit, and an instructor's course manual. The materials presented in this course curriculum are only a suggested format for a course of this nature and, as typical with community college curriculum, will undergo revision in the future. The author and Galveston College welcome your comments regarding your experience with these materials.

**VOLUME I**  
**THREE-HOUR COURSE**





**STUDENT COURSE  
SYLLABUS**

Microcomputer Applications for Health Care Professionals

STUDENT'S COURSE SYLLABUS

COURSE TITLE: MICROCOMPUTER APPLICATIONS FOR HEALTH CARE PROFESSIONALS

COURSE NUMBER:

<u>Prefix</u>	<u>No.</u>	<u>0</u>	<u>135</u>	<u>3</u>
		Lecture Hrs.	Lab Hrs.	Credit Hrs.

CATALOG DESCRIPTION:

An introduction to microcomputer use in health care settings. Topics include computer system information, wordprocessing, spreadsheets, data base management, and applications for the health care professional.

PREREQUISITE:

None

TEXTS:

Essentials of Data Processing, by Nancy A. Floyd,  
Times Mirror/Mosby College Publishing, 1987.

Microcomputers in Health Care Management, by  
William W. Christensen and Eugene I. Stearns,  
Aspen Publication, 1984.

Understanding and Using WordStar, by Steven C. Ross,  
West Publishing Company, 1986.

Understanding and Using Lotus 1-2-3, by Steven C. Ross,  
West Publishing Company, 1986.

Understanding and Using dBase III, by Steven C. Ross,  
West Publishing Company, 1986.

INSTRUCTIONAL PROCESS:

1. This is a self-paced course that will take approximately 135 hours to complete for 3 hours credit.
2. Reading and laboratory assignments can be found in the materials, Student's Guide (Laboratory), attached.
3. A paper describing the use of microcomputers in the student's health care discipline will be required. The paper will contain a section on the use of word processing and a spreadsheet and database application designed by the student.
4. Tests and quizzes will be given.
5. Application program disks, data disks, and tests and quizzes are available from the check-out desk in the Learning Resource Center.
6. All laboratory assignments, tests and quizzes, and the paper must be completed by the last day of the course. Although this is a self-paced course, there is a class schedule attached to the Student's Course Syllabus. The student may use it as a suggested schedule to complete the course if so desired.
7. The student who has knowledge and experience in any of the course content may demonstrate proficiency and receive credit for it by successfully completing tests, quizzes, laboratory assignments, and/or the paper.

OBJECTIVES:

After completion of this course, the student will be able to:

1. Understand basic information concerning computer systems
2. Demonstrate proficiency in wordprocessing
3. Demonstrate proficiency in the use of spreadsheets
4. Demonstrate proficiency in data base management
5. Understand applications of wordprocessing, spreadsheets and data base management in health care

EVALUATION OF STUDENTS:

Examinations: Four unit tests will be given.

Quizzes: Five quizzes will be given periodically. Each quiz will be similar to exam questions.

Paper: One paper will be required.

Laboratory Assignments: These will be found in the Student's Guide (Laboratory).

FINAL GRADE DETERMINATION:

Grades for the semester will be determined based on the accumulated points earned. To determine a tentative grade, divide the total points earned by the total possible points. The grading scale will be strictly 90, 80, 70, 60 percent of the possible points.

Approximately 40% of the total points will be from lab assignments, 20% from tests, 20% from quizzes, and 20% from the paper.

CLASS SCHEDULE:

<u>Week No.</u>	<u>Description</u>	<u>Due</u>	<u>Assignment</u>
<u>INTRODUCTION/OVERVIEW</u>			
<u>Essentials of Data Processing</u>			
1	Information on Computer Systems	Quiz 1	Chapters 1, 2, 3, and 4
2	Information on Computer Systems (Cont.)	Test 1	Chapters 1, 2, 3, 4, 6, 8, 9, 10
<u>WORDPROCESSING: WORDSTAR</u>			
<u>Understanding and Using WordStar</u>			
3	Getting Started on Your Microcomputer Fundamental Operations The WordStar Environment Creating a Document File Management	Lab 1	Appendix A Part 1: Page 1 Part 1: Unit 1 Part 1: Unit 2 Part 1: Unit 3 Application A1 Application A2
4	Quick Look At Menus Menu Editing Commands Markers and Block Move, Copy and Delete	Lab 2 Appli. A1 Appli. A2	Part 1: Unit 4 Part 1: Unit 5 Part 2: Unit 6 Application A1 Application A2 Application B1 Application B2
5	Find and Replace File Operations Onscreen Formatting	Quiz 2 Lab 3 Appli. B1 Appli. B2	Part 2: Unit 7 Part 2: Unit 8 Part 2: Unit 9 Application B1 Application B2 Application C1 Application C2 Application D1 Application D2 Application D3
6	Pagination, Headings and Footings Printing Special Effects	Lab 4 Appli. C1 Appli. C2	Part 2: Unit 10 Part 2: Unit 11 Application D1 Application D2 Application D3

Week No.	Description	Due	Assignment
7	Print Command Options Help Menu	Test 2 Lab 5 Appli. D1 Appli. D2 Appli. D3	Part 2: Unit 12 Part 2: Unit 13 Application D1 Application D2 Application D3
	Applications for Health Care Professionals		<u>Microcomputers in Health Care Management</u>  Chapters 3 and 5
	<u>SPREADSHEETS: LOTUS 1-2-3</u>		<u>Understanding and Using Lotus 1-2-3</u>
8	Getting Started on Your Microcomputer Fundamental Spreadsheet Operations The Lotus Environment The Lotus Worksheet Operators and Functions	Lab 6	Appendix A  Part 1: Page 1  Part 1: Unit 1 Part 1: Unit 2 Part 1: Unit 3 Application A
9	Changing the Appearance of the Worksheet Print Command	Quiz 3 Lab 7 Appli. A	Part 1: Unit 4  Part 1: Unit 5 Application A
10	Calculation Copy and Move Commands	Lab 8 Appli. B Appli. C	Part 2: Unit 6 Part 2: Unit 7 Application B Application C
11	Screen Graphics Paper Graphics	Test 3 Lab 9 Appli. D	Part 2: Unit 8 Part 2: Unit 9 Application D
	Applications for Health Care Professionals		<u>Microcomputers in Health Care Management</u>  Chapters 4 and 7

<u>Week No.</u>	<u>Description</u>	<u>Due</u>	<u>Assignment</u>
<u>DATA BASE MANAGEMENT: dBASE III</u>			<u>Understanding and Using dBASE III</u>
12	Getting Started on Your Microcomputer Fundamental Data Base Operations The Data Base Concept The dBase Environment	Lab 10	Appendix A Part 1: Page 1 Part 1: Unit 1 Part 1: Unit 2 Application A
13	Data File Creation Intermediate Data Base Operations Conditions/Expressions Summary Statistics	Quiz 4 Lab 11 Appli. A	Part 1: Unit 3 Part 2: Page 41 Part 2: Unit 4 Part 2: Unit 5 Application A Application B
14	Data File Order and Search Operating Parameters and Disk Files	Lab 12 Appli. B	Part 2: Unit 6 Part 2: Unit 7 Application B Application C
15	Data File Changes Report Generation Label Generation	Quiz 5 Lab 13 Appli. C	Part 2: Unit 8 Part 2: Unit 9 Part 2: Unit 10 Application C Application D
16	Applications for Health Care Professionals	Test 4 Lab 14 Appli. D Paper	<u>Microcomputers in Health Care Management</u> Chapter 6 Paper assignment



**STUDENT      GUIDE**



# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (READINGS)

### Unit 1

Unit Title: Information on Computer Systems

Contents of Unit:

1. The components of computer hardware
2. The two basic types of software
3. The ways in which operating systems can be used
4. The different levels of programming languages
5. The historical development of computers
6. The role of computers in business, medicine, allied health and society
7. The factors to be considered in selecting a microcomputer
8. The factors to be considered in selecting applications software
9. The basic concepts of telecommunications
10. The components of the information processing cycle

Unit Objectives: Upon completion of this unit, the student will be able to:

1. Define the term computer
2. Recount the evolution of computers
3. Discuss how computers affect our lives
4. Describe the characteristics of the various input and output devices
5. Explain the differences between sequential and random access and the advantages of each
6. Explain the purpose of secondary storage
7. List several devices that must be accessed sequentially and several that may be accessed randomly
8. Explain how data is stored on disk and on tape
9. Identify the components of the central processing unit
10. Describe what occurs during a machine cycle
11. Explain how main storage differs from secondary storage and the purpose of each
12. Differentiate between multiprogramming and multi-processing
13. Describe the purpose of an operating system and compares several current ones
14. Explain what software is
15. Discuss custom programming and why it is necessary

16. Describe several popular types of applications software: electronic spreadsheets, word processing programs, and integrated software
17. Explain what is meant by high- and low-level languages
18. Discuss why so many languages exist and describes several of them
19. Explain the purpose of query languages
20. Describe what is meant by natural languages

Rationale: Students must understand and be able to describe basic information and concepts concerning computer systems in general.

Learning Activities: Essentials of Data Processing  
Read Chapters 1, 2, 3, and 4

Unit Evaluation: Quiz #1 and Test #1

Terms (vocabulary):

computer	input device	output device
sequential access	random access	secondary storage
data	disk	tape
central processing	machine cycle	main storage
unit (CPU)	operating system	software
programming	custom programming	query languages
electronic	word processing	integrated software
spreadsheets	word processing	low-level language
high-level	programs	applications
language	natural languages	software

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (READINGS)

### Unit 2

Unit Title: Information on Computer Systems (Cont.)

Contents of Unit:

1. The microcomputer revolution
2. The database and its evolution
3. The basic concepts of electronic spreadsheets
4. The basic concepts of wordprocessing
5. The basic concepts of database management
6. The use of graphics
7. The use of networking
8. The current issues in telecommunications

Unit Objectives: Upon completion of this unit, the student will be able to:

1. Discuss the history of the microcomputer revolution
2. Describe the unique hardware characteristics of the microcomputer
3. Explain what a "supermicro" is
4. Discuss the various uses of microcomputers
5. Evaluate microcomputer hardware
6. Evaluate software
7. Know how to care for the microcomputer system
8. Define database
9. Discuss why database evolved
10. Describe the purpose of a query language
11. List the main functions of a database management system
12. Name the three most common types of database organization and describes their structure
13. Discuss the problems arising from the collection of large banks of data in a central location and problems with privacy, security, and ethics
14. Explain what a spreadsheet is and how it is used
15. Describe word processing and its advantages over both typing and using a memory typewriter
16. Discuss ways that database is used on a microcomputer
17. Define graphics and describes how they are used in a microcomputer environment
18. Discuss the features, such as windowing, that are used in these packages
19. Describe a telecommunications system and its hardware components
20. Explain what is meant by "handshaking"

21. Identify several types of communication links
22. Define a network
23. Describe several network configurations
24. Discuss the advantages and disadvantages of distributed data processing
25. Differentiate between distributed data processing and a distributed database
26. Discuss the current issues in telecommunications: privacy, security, and integrity
27. Discuss current trends in telecommunications

Rationale: Students must understand and be able to describe basic information and concepts concerning microcomputers, word processing, electronic spreadsheets, database management, and telecommunications.

Learning Activities: Essentials of Data Processing  
Read Chapters 1, 2, 3, 4, 6, 8, 9, and 10

Unit Evaluation: Test #1

Terms (vocabulary):

microcomputer	hardware	supermicro
software	microcomputer system	database
query language	centralized data	database manage-
data privacy	data security	ment system
data ethics	spreadsheet	wordprocessing
graphics	windowing	handshaking
telecommunications	communication links	network
system	data processing	distributed data
telecommunications	telecommunications	processing
integrity	privacy	distributed
telecommunications	telecommunications	database
security	trends	

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (WORDSTAR)

### Unit 3

Unit Title: WordStar

Contents of Unit:

1. Getting Started on Your Microcomputer
2. Fundamental Operations
3. The WordStar Environment
4. Creating a Document
5. File Management

Unit Objectives: Upon completion of this unit, the student will be able to:

1. Prepare a disk for use
2. Copy single files
3. Copy all files
4. Copy an entire disk
5. Identify disk(s) to start WordStar
6. Describe how WordStar uses the keyboard
7. Identify the levels of operation of WordStar
8. Load the WordStar program
9. Describe a document file
10. Identify what IBM PC keyboard keys substitute for common cursor movement keys
11. Create a new document
12. Edit a previously created document
13. Save a file to disk
14. Print a file
15. Describe file naming conventions
16. Identify how to use file names to your advantage
17. Describe how WordStar's automatic backup system functions
18. Create backup files on a data disk

Rationale: Students must understand and be able to demonstrate proficiency in executing basic procedures and commands.

Learning Activities: Laboratory 1Understanding and  
Using WordStar

## Appendix A

Part 1: Page 1  
 Part 1: Unit 1  
 Part 1: Unit 2  
 Part 1: Unit 3  
 Application A1  
 Application A2

Unit Evaluation: Application A1  
 Application A2  
 Quiz #2  
 Test #2

Terms (vocabulary):

disk operating system (DOS)	function keys	main menu
numeric keypad keys	toggle key functions	caps lock key
startup procedures	loading DOS	the DOS prompt
default drive	shutdown procedures	DOS commands
copying files	disk preparation	disk directory
erasing files	copying an entire disk	deleting files
commands	pause display	saving files
logged disk drive	levels of operation	opening menu
entering text	opening a document	exiting WordStar
exiting to the	file	multiple key combinations
opening menu	printing	print screen function
backup	file names	
	extensions	

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (WORDSTAR)

### Unit 4

Unit Title: WordStar (Cont.)

Contents of Unit:

1. Quick Look At Menus
2. Menu Editing Commands
3. Markers and Block Move, Copy and Delete

Unit Objectives: Upon completion of this unit, the student will be able to:

1. Describe the five menus subordinate to the Main Menu
2. Move to the left or right side of the line, the top to bottom of the screen, and the beginning or end of the file
3. Center text on a line
4. Underline or boldface text
5. Abandon the version of the file currently being edited
6. Change the help level
7. Differentiate between insert and over-strike modes
8. Scroll the document up or down
9. Delete a word at a time
10. Delete part of a line
11. Delete an entire line
12. Insert a hard return
13. Stop a command
14. Describe markers and block operations
15. Place markers in a document
16. Move the cursor to those markers
17. Mark a block of text
18. Hide and displays the block markers
19. Move a block of text from one place to another
20. Make a copy of a block of text elsewhere in the document
21. Delete a block of text

Rationale: Students must understand and be able to demonstrate proficiency in executing basic procedures and commands.

Learning Activities: Laboratory 2Understanding and  
Using WordStar

Part 1: Unit 4  
 Part 1: Unit 5  
 Part 2: Unit 6  
 Application A1  
 Application A2  
 Application B1  
 Application B2

Unit Evaluation: Application A1  
 Application A2  
 Application B1  
 Application B2  
 Quiz #2  
 Text #2

Terms (vocabulary):

quick menu	onscreen menu	print menu
block menu	help menu	insert mode
cursor movement	scrolling	delete
repeat command	stopping commands	moving a block
markers	block markers	numbered markers
copying a block	partial line	deleting a block
automatic markers	deletion	



# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (WORDSTAR)

### Unit 5

Unit Title: WordStar (Cont.)

Contents of Unit:

1. Find and Replace
2. File Operations
3. Onscreen Formatting

Unit Objectives: Upon completion of this unit, the student will be able to:

1. Differentiate between find and replace operations
2. Find a character string in a document
3. Find a character string and replaces it with another character string
4. Repeat either of the above operations
5. Use the find and replace options to control the effect of the command
6. Describe the file operations available in WordStar
7. Rename a file
8. Copy a file
9. Delete a file
10. Display or suppresses the file directory
11. Print one file while editing another
12. Write a block from the document being edited to a disk file
13. Read a file into the document being edited
14. Exit from the Main Menu to the operating system
15. Identify the formatting accomplished via the Onscreen Menu
16. Reset the left and right margins
17. Release the margins
18. Set and removes tabs
19. Center a line
20. Turn right-margin justification on and off
21. Turn hyphen help on and off
22. Suppress the display of Print Menu formatting characters

Rationale: Students must understand and be able to demonstrate proficiency in executing basic procedures and commands.

Learning Activities: Laboratory 3Understanding and  
Using WordStar

Part 2: Unit 7  
 Part 2: Unit 8  
 Part 2: Unit 9  
 Application B1  
 Application B2  
 Application C1  
 Application C2  
 Application D1  
 Application D2  
 Application D3

Unit Evaluation: Application B1  
 Application B2  
 Application C1  
 Application C2  
 Application D1  
 Application D2  
 Application D3  
 Quiz #2  
 Test #2

Terms (vocabulary):

find vs. replace  
 repeating find  
 and replace  
 block reading  
 and writing  
 tabs

find operations  
 find options  
 file management  
 save command  
 margins  
 line functions

replace operations  
 replace options  
 printing while editing  
 exit command  
 marginal mathematics  
 toggles

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (WORDSTAR)

### Unit 6

Unit Title: WordStar (Cont.)

Contents of Unit:

1. Pagination, Headings and Footings
2. Printing Special Effects

Unit Objectives: Upon completion of this unit, the student will be able to:

1. Describe a dot command
2. Describe a page break
3. Describe headings and footings
4. Start a new page
5. Start a new page if fewer than a certain number of lines remain on the current page
6. Eliminate page numbering
7. Change the number assigned to a page
8. Specify a heading text
9. Specify a footing text
10. Describe fundamental operational differences between draft quality and letter quality printers
11. Utilize all the Print Menu special effects commands

Rationale: Students must understand and be able to demonstrate proficiency in executing basic procedures and commands.

Learning Activities: Laboratory 4

Understanding and  
Using WordStar

Part 2: Unit 10  
Application C1  
Part 2: Unit 11  
Application D1  
Application D2  
Application D3

Unit Evaluation: Application C1  
Application D1  
Application D2  
Application D3  
Test #2

Terms (vocabulary):

dot commands	page breaks	page numbering
headings	footings	justification
special effects	boldfacing	double striking
underscore	superscript	subscript
overprint character		non-break space

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (WORDSTAR AND READINGS)

### Unit 7

Unit Title: WordStar (Cont.)  
Applications for Health Care Professionals

Contents of Unit:

1. Print Command Options
2. Help Menu
3. Applications for Health Care Professionals

Unit Objectives: Upon completion of this unit, the student will be able to:

Concerning WordStar:

1. Describe each of the various print options
2. Print a file
3. Print only selected pages of a document
4. Print a file without page formatting
5. Print on single sheets of paper
6. Interrupt printing
7. Describe the levels of help available during editing
8. Obtain Help on several different topics

Concerning the importance to health care:

1. Discuss "Is the Microcomputer for You?"
2. Describe selecting the microcomputer
3. Discuss introducing the system
4. Describe programs in action
5. Describe information centers
6. Describe hardware
7. Describe software
8. Discuss centralized versus decentralized word processing
9. Describe list management
10. Discuss facilities management
11. Discuss policy manuals and phone directories
12. Describe word processing in the medical records department
13. Describe word processing potential

Rationale: Students must understand and be able to demonstrate proficiency in executing basic procedures and commands and the importance to health care professionals.

Learning Activities: Laboratory 5

Understanding and  
Using WordStar

Part 2: Unit 12

Part 2: Unit 13

Application D1

Application D2

Application D3

Readings

Microcomputers  
in Health Care  
Management

Chapters 3 and 5

Unit Evaluation: Application D1  
Application D2  
Application D3  
Test #2

Terms (vocabulary):

print options	interrupting printing	help menu
setting help levels	on-line help	functions

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (LOTUS 1-2-3)

### Unit 8

Unit Title: Lotus 1-2-3

Contents of Unit:

1. Getting Started on Your Microcomputer
2. Fundamental Spreadsheet
3. Operations
4. The Lotus Environment
5. The Lotus Worksheet
6. Operators and Functions

Unit Objectives: Upon completion of this unit, the student will be able to:

1. Prepare a disk for use
2. Copy single files
3. Copy all files
4. Copy an entire disk
5. Identify the purpose of each of the five Lotus diskettes
6. Describe how Lotus uses the keyboard keys
7. Describe the Lotus Access System
8. Load the Lotus Access System
9. Enter Lotus 1-2-3 spreadsheet mode
10. Describe a cell
11. Differentiate between label and value cell entries
12. Determine a cell's address
13. Identify the dimensions of the Lotus 1-2-3 worksheet
14. Define "control panel area"
15. Define the "pointing method"
16. Determine whether or not any of the "Lock" keys are engaged
17. Enter a label into a worksheet cell
18. Enter a constant value into a worksheet cell
19. Enter a formula into a worksheet cell
20. Edit the contents of a worksheet cell
21. Save a file to disk
22. Retrieve a file from disk
23. Backup the files on a data disk
24. Exit to the Lotus Access System
25. Define "order of precedence"
26. Describe how each of the numeric operators is used in formulas

27. Describe the various categories of functions
28. Write formulas using arithmetic operators
29. Write formulas using functions

Rationale: Students must understand and be able to demonstrate proficiency in executing basic procedures and commands.

Learning Activities: Laboratory 6

Understanding and  
Using Lotus 1-2-3

Appendix A

Part 1: Page 1

Part 1: Unit 1

Part 1: Unit 2

Part 1: Unit 3

Application A

Unit Evaluation: Application A  
Quiz #3  
Test #3

Terms (vocabulary):

disk operating system (DOS)	function keys
numeric keypad keys	toggle key functions
startup procedures	loading DOS
default drive	shutdown procedures
copying files	disk preparation
erasing files	copying an entire disk
Lotus diskettes	pause display
Lotus access system	Lotus 1-2-3 keyboard
entering information	spreadsheet concept
/file commands	editing cell entries
arithmetic and logical operations	/quit command
multiple key combinations	functions
caps lock key	deleting files
the DOS prompt	print screen function
DOS commands	startup procedure
disk directory	Lotus 1-2-3 screen
	Lotus 1-2-3 commands
	backup



Microcomputer Applications for Health Care Professionals

STUDENT'S GUIDE (LOTUS 1-2-3-)

Unit 9

Unit Title: Lotus 1-2-3 (Cont.)

Contents of Unit:

1. Changing the Appearance of the Worksheet
2. Print Command

Unit Objectives: Upon completion of this unit, the student will be able to:

1. Identify the characteristics of general, fixed, currency, percent, and date formats
2. Describe a range
3. Change the global numeric display format to any of the five formats noted above
4. Insert and delete rows and columns in a worksheet
5. Specify a range using the pointing method
6. Erase a specific area of the worksheet
7. Erase the entire worksheet
8. Reformat values within a specified range
9. Realign labels within a specified range
10. Describe a sticky menu
11. Describe the various /Print submenu items
12. Print all or a portion of the worksheet

Rationale: Students must understand and be able to demonstrate proficiency in executing basic procedures and commands.

Learning Activities: Laboratory

Understanding and  
Using Lotus 1-2-3

Part 1: Unit 4  
Part 1: Unit 5  
Application A

Unit Evaluation: Application A  
Quiz #3  
Test #3

Terms (vocabulary):

/worksheet commands      /range commands and  
   spreadsheet ranges      /print command

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (LOTUS 1-2-3-)

### Unit 10

Unit Title: Lotus 1-2-3 (Cont.)

Contents of Unit:

1. Calculation
2. Copy and Move Commands

Unit Objectives: Upon completion of this unit, the student will be able to:

1. Distinguish among the three types of cell addresses
2. Describe when to use mixed or absolute addresses instead of relative addresses
3. Describe when to use manual instead of automatic recalculation
4. Describe the natural order of recalculation
5. Describes a circular reference
6. Enter a formula containing relative, absolute, and mixed addresses using the pointing method
7. Change the recalculation method from manual to automatic, and vice versa
8. Change the recalculation method to rowwise or columwise
9. Change the recalculation method to a specific number of iterations
10. Describe the four variations of the /Copy command
11. Describe how the /Copy command affects cell addresses
12. Describe how the /Move command affects cell addresses
13. Differentiate between /Copy and /Move usage of each
14. Copy a portion of the worksheet to another place on the worksheet
15. Move a portion of the worksheet to another place on the worksheet

Rationale: Students must understand and be able to demonstrate proficiency in executing basic procedures and commands.

Learning Activities: Laboratory 8

Understanding and  
Using Lotus 1-2-3

Part 2: Unit 6

Part 2: Unit 7

Application B

Application C

Unit Evaluation: Application B  
Application C  
Test #3

Terms (vocabulary):

cell addresses  
/move command

recalculation  
/copy vs. /move

/copy command

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (LOTUS 1-2-3- AND READINGS)

### Unit 11

Unit Title: Lotus 1-2-3 (Cont.)  
Applications for Health Care Professionals

#### Contents of Unit:

1. Screen Graphics
2. Paper Graphics
3. Applications for Health Care Professionals

Unit Objectives: Upon completion of this unit, the student will be able to:

#### Concerning Lotus:

1. Describe the five types of graphs and the appropriate uses of each
2. Define any of the types of graph
3. Add titles and legends to the graph
4. Save the graph for later printing
5. Name the graph for later recall
6. Print a copy of a previously saved graph

#### Concerning the importance to health care:

1. Describe functions
2. Describe types of programs
3. Describe spreadsheet capability
4. Describe creating a template
5. Describe summary sheets
6. Describe financial reports
7. Describe utilizing spreadsheets
8. Describe facilities data base management
9. Describe materiel management
10. Describe productivity measurement
11. Describe spreadsheet models for the dietetics department
12. Describe labor negotiations information spreadsheet
13. Describe labor market analysis spreadsheet
14. Describe spreadsheets to determine staffing needs
15. Describe spreadsheets for budget control and forecasting
16. Discuss summary information
17. Describe graphics hardware/software requirements
18. Discuss admitting statistics
19. Discuss dietetic applications

- 20 Describe facilities management
- 21. Describe materiel management
- 22. Describe nursing applications
- 23. Describe operating room applications
- 24. Discuss summary information

Rationale: Students must understand and be able to demonstrate proficiency in executing basic procedures and commands and the importance to health care professionals.

Learning Activities: Laboratory 9

Understanding and  
Using Lotus 1-2-3

Part 2: Unit 8  
Part 2: Unit 9  
Application D

Microcomputers  
in Health Care  
Management

Chapters 4 and 7

Unit Evaluation: Application D  
Test #3

Terms (vocabulary):

creating a graph	/graph command	worksheet
printing operations	plotting operations	preparation

Microcomputer Applications for Health Care Professionals

STUDENT'S GUIDE (dBASE III)

Unit 12

Unit Title: dBASE III

Contents of Unit:

1. Getting Started on Your Microcomputer
2. Fundamental Data Base Operations
3. The Data Base Concept
4. The dBase Environment

Unit Objectives: Upon completion of this unit, the student will be able to:

1. Prepare a disk for use
2. Copy single files
3. Copy all files
4. Copy an entire disk
5. Define data base management terms
6. Describe important considerations before you begin to create a data base system
7. Describe a simple data base system on paper
8. Describe the use of the dBASE disks
9. Describe how dBASE uses the keyboard
10. Load the dBASE program

Rationale: Students must understand and be able to demonstrate proficiency in executing basic procedures and commands.

Learning Activities: Laboratory 10

Understanding and  
Using dBASE III

Appendix A  
Part 1: Page 1  
Part 1: Unit 1  
Part 1: Unit 2  
Application A

Unit Evaluation: Application A  
 Quiz #4  
 Test #4

Terms (vocabulary):

disk operating system (DOS)	function keys	multiple key combinations
numeric keypad keys	toggle key functions	caps lock key
startup procedures	loading DOS	the DOS prompt
default drive	shutdown procedures	DOS commands
copying files	disk preparation	disk directory
erasing files	copying an entire disk	deleting files
data base management system (DBMS)	print screen function	pause display
record	dBASE III, version 1.2	file
data dictionary	table	byte
data base system design	fields	key
startup procedure	index	data base
	dBASE diskettes	dBASE keyboard
	dBASE II	



Microcomputer Applications for Health Care Professionals

STUDENT'S GUIDE (dBASE III)

Unit 13

Unit Title: dBASE III (Cont.)

Contents of Unit:

1. Data File Creation
2. Intermediate Data Base Operations
3. Conditions/Expressions
4. Summary Statistics

Unit Objectives: Upon completion of this unit, the student will be able to:

1. Describe the various types of fields
2. Describe how to structure a data file
3. Create a data file
4. Enter data into the file
5. Display the file contents
6. Change enteries in the file
7. Backup data files
8. Differentiate between logical conditions and computed expressions
9. Define "order of precedence"
10. Describe how each of the operators is used in expressions and conditions
11. Describe the various categories of functions
12. Write expressions and conditions using the various operators
13. Write expressions and conditions using functions
14. Utilize each of the summary statistics commands

Rationale: Students must understand and be able to demonstrate proficiency in executing basic procedures and commands.

Learning Activities: Laboratory 11Understanding and  
Using dBASE III

Part 1: Unit 3  
 Part 2: Page 41  
 Part 2: Unit 4  
 Part 2: Unit 5  
 Application A  
 Application B

Unit Evaluation: Application A  
 Application B  
 Quiz #4  
 Test #4

Terms (vocabulary):

commanding dBASE	quitting	functions
field name	field type	field width
data entry	saving your work	viewing data in
editing data	backup	a data file
logical conditions	the calculator	operators
vs. computed	creating a data file	counts
expressions	constrained lists	sums
averages		

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (dBASE III)

### Unit 14

Unit Title: dBASE III (Cont.)

Contents of Unit:

1. Data File Order and Search
2. Operating Parameters and Disk Files

Unit Objectives: Upon completion of this unit, the student will be able to:

1. Describe the record pointer and current record
2. Differentiate between sorting and indexing
3. Describe what ASCII collating sequence means
4. Differentiate between finding locating
5. Sort a file
6. Index a file
7. Find a record
8. Locate records
9. Identify the purpose a file serves by the file extension
10. Describe the purpose of the various operating parameters and how to alter those parameters
11. Obtain a directory of da. files on a disk
12. Obtain a directory of all files on a disk
13. Obtain a directory of all files of a certain type
14. Copy all or a portion of a data file to another data file
15. Copy all or a portion of a data file to a file suitable for importation into a spreadsheet or wordprocessing program
16. Display the current settings of function keys
17. Change the current settings of function keys

Rationale: Students must understand and be able to demonstrate proficiency in executing basic procedures and commands.

Learning Activities: Laboratory 12

Understanding and  
Using dBASE III

Part 2: Unit 6

Part 2: Unit 7

Application B

Application C

Unit Evaluation: Application B  
Application C  
Quiz #5  
Test #4

Terms (vocabulary):

ordering the data  
in a file  
parameters  
displaying para-  
meters  
input from other  
applications software

sorting  
searching through a  
file  
output to other appli-  
cations software

indexing  
record pointer  
operating  
parameters  
disk files

Microcomputer Applications for Health Care Professionals

STUDENT'S GUIDE (dBASE III)

Unit 15

Unit Title: dBASE III (Cont.)

Contents of Unit:

1. Data File Changes
2. Report Generation
3. Label Generation

Unit Objectives: Upon completion of this unit, the student will be able to:

1. Differentiate among edit, change and replace commands
2. Describe the various stages of the record deletion process
3. Combine two data files
4. Change selected fields of selected records
5. Replace field contents on a selective basis
6. Delete, recall, and purge records
7. Modify the structure of a data file
8. Define the terminology of reports
9. Create and produces a report
10. Create labels using dBASE III

Rationale: Students must understand and be able to demonstrate proficiency in executing basic procedures and commands.

Learning Activities: Laboratory 13

Understanding and  
Using dBASE III

Part 2: Unit 8  
Part 2: Unit 9  
Part 2: Unit 10  
Application C  
Application D

Unit Evaluation:    Application    C  
                           Application    D  
                           Quiz #5  
                           Test #4

Terms (vocabulary):

adding data  
 temporary deletion  
 report  
 field definition  
 creating label  
 format

changing data  
 permanent deletion  
 report format  
 producing reports  
 producing labels

deleting records  
 modifying file  
 structure  
 report  
 generation

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (READINGS)

### Unit 16

Unit Title: Applications for Health Care Professionals

Contents of Unit:

1. Applications for Health Care Professionals

Unit Objectives: Upon completion of this unit, the student will be able to:

Concerning the importance to health care:

1. Describe field, records and files
2. Describe storing information
3. Describe sorting data
4. Describe report generation
5. Describe memory
6. Describe choosing a DBM program
7. Describe special purchase tracking
8. Describe project tracking
9. Describe facilities management
10. Describe an environmental quality assurance program
11. Describe financial management
12. Describe medical records applications

Rationale: Students must understand and be able to describe the importance of data base management to health care professionals.

Learning Activities: Laboratory 14

Microcomputers  
in Health Care  
Management

Chapter 6

Paper assignment

Unit Evaluation: Test #4  
Paper assignment

Terms (vocabulary):

field  
storing information  
memory  
project tracking  
financial  
management

records  
sorting data  
DBM program  
facilities  
management

files  
report generation  
special purchase  
tracking  
environmental quality  
assurance program





# STUDENT LAB GUIDE

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (LABORATORY)

### Assignment #1 - Lab 1

Unit Title: WordStar

Assignment Is Associated With: Unit 3 - WordStar

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will be able to:

1. Prepare a disk for use
2. Copy single files
3. Copy all files
4. Copy an entire disk
5. Identify disk(s) to start WordStar
6. Describe how WordStar uses the keyboard
7. Identify the levels of operation of WordStar
8. Load the WordStar program
9. Describe a document file
10. Identify what IBM PC keyboard keys substitute for common cursor movement keys
11. Create a new document
12. Edit a previously created document
13. Save a file to disk
14. Print a file
15. Describe file naming conventions
16. Identify how to use file names to your advantage
17. Describe how WordStar's automatic backup system functions
18. Create backup files on a data disk

### Materials Required:

#### Self-Study:

Textbook

#### Laboratory:

Textbook

One (1) Floppy Disk

WordStar Program Disk

WordStar Data Disk from West Publishing Co.

IBM PC

Laboratory Handouts: None

Learning Activities (assignments):

Laboratory: Complete Lab 1

Understanding and Using WordStar

1. Appendix A
2. Part 1: Page 1
3. Part 1: Unit 1
4. Part 1: Unit 2
5. Part 1: Unit 3
6. Application A1
7. Application A2

Steps:

1. Read assignments in textbook
2. Prepare a disk for use
3. Practice WordStar commands in textbook
4. Answer Reviews Questions (if included)
5. Complete the Guided Activities (if included)
6. Complete Applications A1 and A2
7. Complete Quiz 2
8. Complete Test 2

Evaluation:

Self-Study:

Quiz #2 (objective)

Test #2 (objective)

Laboratory:

Applications A1 and A2 (performance)

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (LABORATORY)

### Assignment #2 - Lab 2

Unit Title: WordStar

Assignment Is Associated With: Unit 4 - WordStar

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will be able to:

1. Describe the five menus subordinate to the Main Menu
2. Move to the left or right side of the line, the top or bottom of the screen, and the beginning or end of the file
3. Center text on a line
4. Underline or boldface text
5. Abandon the version of the file currently being edited
6. Change the help level
7. Differentiate between insert and over-strike modes
8. Scroll the document up or down
9. Delete a word at a time
10. Delete part of a line
11. Delete an entire line
12. Insert a hard return
13. Stop a command
14. Describe markers and block operations
15. Place markers in a document
16. Move the cursor to those markers
17. Mark a block of text
18. Hide and displays the block markers
19. Move a block of text from one place to another
20. Make a copy of a block of text elsewhere in the document
21. Delete a block of text

Materials Required:

## Self-Study:

Textbook

## Laboratory:

Textbook

One (1) Floppy Disk

WordStar Program Disk

WordStar Data Disk from West Publishing Co.

IBM PC

Laboratory Handouts: NoneLearning Activities (assignments):

Laboratory: Complete Lab 2

Understanding and Using WordStar

1. Part 1: Unit 4
2. Part 1: Unit 5
3. Part 2: Unit 6
4. Application A1
5. Application A2
6. Application B1
7. Application B2

STEPS:

1. Read assignments in textbook
2. Practice WordStar commands in textbook
3. Answer Reviews Questions in textbook  
(if included)
4. Complete the Guided Activities in textbook  
(if included)
5. Complete Quiz 2
6. Complete Test 2

Evaluation:

## Self-Study:

Quiz #2 (objective)

Test #2 (objective)

## Laboratory:

Applications A1 and A2 (performance)

Applications B1 and B2 (performance)

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (LABORATORY)

### Assignment #3 - Lab 3

Unit Title: WordStar

Assignment Is Associated With: Unit 5 - WordStar

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will be able to:

1. Differentiate between find and replace operations
2. Find a character string in a document
3. Find a character string and replaces it with another character string
4. Repeat either of the above operations
5. Use the find and replace options to control the effect
6. Describe the file operations available in WordStar
7. Rename a file
8. Copy a file
9. Delete a file
10. Display or suppresses the file directory
11. Print one file while editing another
12. Write a block from the document being edited to a disk file
13. Read a file into the document being edited
14. Exit from the Main Menu to the operating system
15. Identifie the formatting accomplished via the Onscreen Menu
16. Reset the left and right margins
17. Release the margins
18. Set and removes tabs
19. Center a line
20. Turn right-margin justification on and off
21. Turn hyphen help on and off
22. Suppress the display of Print Menu formatting characters

Materials Required:

## Self-Study:

Textbook

## Laboratory:

Textbook

One (1) Floppy Disk

WordStar Program Disk

WordStar Data Disk from West Publishing Co.

IBM PC

Laboratory Handouts: NoneLearning Activities (assignments):

Laboratory: Complete Lab 3

Understanding and Using WordStar

1. Part 2: Unit 7
2. Part 2: Unit 8
3. Part 2: Unit 9
4. Application B1
5. Application B2
6. Application C1
7. Application C2
8. Application D1
9. Application D2
10. Application D3

Steps:

1. Read assignments in textbook
2. Practice WordStar commands in textbook
3. Answer Reviews Questions in textbook (if included)
4. Complete the Guided Activities in textbook (if included)
5. Complete Quiz 2
6. Complete Test 2

Evaluation:

## Self-Study:

Quiz #2 (objective)

Test #2 (objective)

## Laboratory:

Applications B1 and B2 (performance)

Applications C1 and C2 (performance)

Applications D1, D2 and D3 (performance)

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (LABORATORY)

### Assignment #4 - Lab 4

Unit Title: WordStar

Assignment Is Associated With: Unit 6 - WordStar

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will be able to:

1. Describe a dot command
2. Describe a page break
3. Describe headings and footings
4. Start a new page
5. Start a new page if fewer than a certain number of lines remain on the current page
6. Eliminate page numbering
7. Change the number assigned to a page
8. Specify a heading text
9. Specify a footing text
10. Describe fundamental operational differences between draft quality and letter quality printers
11. Utilize all the Print Menu special effects commands

### Materials Required:

#### Self-Study:

Textbook

#### Laboratory:

Textbook

One (1) Floppy Disk

WordStar Program Disk

WordStar Data Disk from West Publishing Co.

IBM PC

Laboratory Handouts: None



Learning Activities (assignments):

Laboratory: Complete Lab 4

Understanding and Using WordStar

1. Part 2: Unit 10
2. Part 2: Unit 11
3. Application D1
4. Application D2
5. Application D3

Steps:

1. Read assignments in textbook
2. Practice WordStar commands in textbook
3. Answer Reviews Questions in textbook (if included)
4. Complete the Guided Activities in textbook (if included)
5. Complete Test 2

Evaluation:

## Self-Study:

Test #2 (objective)

## Laboratory:

Applications D1, D2 and D3 (performance)

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (LABORATORY)

### Assignment #5 - Lab 5

Unit Title: WordStar

Assignment Is Associated With: Unit 7 - WordStar

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will be able to:

#### Concerning WordStar:

1. Describe each of the various print options
2. Print a file
3. Print only selected pages of a document
4. Print a file without page formatting
5. Print on single sheets of paper
6. Interrupt printing
7. Describe the levels of help available during editing
8. Obtain Help on several different topics

#### Concerning the importance to health care:

1. Discuss "Is the Microcomputer for You?"
2. Describe selecting the microcomputer
3. Discuss introducing the system
4. Describe programs in action
5. Describe information centers
6. Describe hardware
7. Describe software
8. Discuss centralized versus decentralized word processing
9. Describe list management
10. Discuss facilities management
11. Discuss policy manuals and phone directories
12. Describe word processing in the medical records department
13. Describe word processing potential

Materials Required:

## Self-Study:

Textbook

## Laboratory:

Textbook

One (1) Floppy Disk

WordStar Program Disk

WordStar Data Disk from West Publishing Co.

IBM PC

Laboratory Handouts: NoneLearning Activities (assignments):

Laboratory: Complete Lab 5

Understanding and Using WordStar

1. Part 2: Unit 12
2. Part 2: Unit 13
3. Application D1
4. Application D2
5. Application D3

Microcomputers in Health Care Management

1. Chapter 3
2. Chapter 5

Steps:

1. Read assignments in textbook
2. Practice WordStar commands in textbook
3. Answer Reviews Questions in textbook (if included)
4. Complete the Guided Activities in textbook (if included)
5. Complete Test 2

Evaluation:

## Self-Study:

Test #2 (objective)

## Laboratory:

Applications D1, D2 and D3 (performance)

Evaluation:

Self-Study:

Test #2 (objective)

Laboratory:

Applications D1, D2 and D3 (performance)

Paper

Microcomputer Applications for Health Care Professionals

STUDENT'S GUIDE (LABORATORY)

Assignment #6 - Lab 6

Unit Title: Lotus 1-2-3

Assignment Is Associated With: Unit 8 - Lotus 1-2-3

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will be able to:

1. Prepare a disk for use
2. Copy single files
3. Copy all files
4. Copy an entire disk
5. Identify the purpose of each of the five Lotus diskettes
6. Describe how Lotus uses the keyboard keys
7. Describe the Lotus Access System
8. Load the Lotus Access System
9. Enter Lotus 1-2-3 spreadsheet mode
10. Describe a cell
11. Differentiate between label and value cell entries
12. Determine a cell's address
13. Identify the dimensions of the Lotus 1-2-3 worksheet
14. Define "control panel area"
15. Define the "pointing method"
16. Determine whether or not any of the "Lock" keys are engaged
17. Enter a label into a worksheet cell
18. Enter a constant value into a worksheet cell
19. Enter a formula into a worksheet cell
20. Edit the contents of a worksheet cell
21. Save a file to disk
22. Retrieve a file from disk
23. Backup the files on a data disk
24. Exit to the Lotus Access System
25. Define "order of precedence"
26. Describe how each of the numeric operators is used in formulas
27. Describe the various categories of functions
28. Write formulas using arithmetic operators
29. Write formulas using functions

Materials Required:

## Self-Study:

Textbook

## Laboratory:

Textbook

One (1) Floppy Disk

Lotus 1-2-3 Program Disk

Lotus 1-2-3 Data Disk from West Publishing Co.

IBM PC

Laboratory Handouts: NoneLearning Activities (assignments):

Laboratory: Complete Lab 6

Understanding and Using Lotus 1-2-3

1. Appendix A
2. Part 1: Page 1
3. Part 1: Unit 1
4. Part 1: Unit 2
5. Part 1: Unit 3
6. Application A

Steps:

1. Read assignments in textbook
2. Prepare a disk for use
3. Practice Lotus 1-2-3 commands in textbook
3. Answer Reviews Questions in textbook (if included)
4. Complete the Guided Activities in textbook (if included)
5. Complete Quiz 3
6. Complete Test 3

Evaluation:

## Self-Study:

Quiz #3 (objective)

Test #3 (objective)

## Laboratory:

Application A (performance)

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (LABORATORY)

### Assignment #7 - Lab 7

Unit Title: Lotus 1-2-3

Assignment IS Associated With: Unit 9 - Lotus 1-2-3

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will be able to:

1. Identify the characteristics of general, fixed, currency, percent, and date formats
2. Describe a range
3. Change the global numeric display format to any of the five formats noted above
4. Insert and delete rows and columns in a worksheet
5. Specify a range using the pointing method
6. Erase a specific area of the worksheet
7. Erase the entire worksheet
8. Reformat values within a specified range
9. Realign labels within a specified range
10. Describe a sticky menu
11. Describe the various /Print submenu items
12. Print all or a portion of the worksheet

### Materials Required:

**Self-Study:**

Textbook

**Laboratory:**

Textbook

One (1) Floppy Disk

Lotus 1-2-3 Program Disk

Lotus 1-2-3 Data Disk from West Publishing Co.

IBM PC

Laboratory Handouts: None

Learning Activities (assignments):

Laboratory: Complete Lab 7

Understanding and Using Lotus 1-2-3

1. Part 1: Unit 4
2. Part 1: Unit 5
3. Application A

Steps:

1. Read assignments in textbook
2. Practice Lotus 1-2-3 commands in textbook
3. Answer Reviews Questions in textbook (if included)
4. Complete the Guided Activities in textbook (if included)
5. Complete Quiz 3
6. Complete Test 3

Evaluation:

## Self-Study:

- Quiz #3 (objective)
- Test #3 (objective)

## Laboratory:

- Application A (performance)



# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (LABORATORY)

### Assignment #8 - Lab 8

Unit Title: Lotus 1-2-3

Assignment Is Associated With: Unit 10 - Lotus 1-2-3

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will be able to:

1. Distinguish among the three types of cell addresses
2. Describe when to use mixed or absolute addresses instead of relative addresses
3. Describe when to use manual instead of automatic recalculation
4. Describe the natural order of recalculation
5. Describe a circular reference
6. Enter a formula containing relative, absolute, and mixed addresses using the pointing method
7. Change the recalculation method from manual to automatic, and vice versa
8. Change the recalculation method to rowwise or columnwise
9. Change the recalculation method to a specific number of iterations
10. Describe the four variations of the /Copy command
11. Describe how the /Copy command affects cell addresses
12. Describe how the /Move command affects cell addresses
13. Differentiate between /Copy and /Move usage of each
14. Copy a portion of the worksheet to another place on the worksheet
15. Move a portion of the worksheet to another place on the worksheet

Materials Required:

## Self-Study:

Textbook

## Laboratory:

Textbook

One (1) Floppy Disk

Lotus 1-2-3 Program Disk

Lotus 1-2-3 Data Disk from West Publishing Co.

IBM PC

Laboratory Handouts: NoneLearning Activities (assignments):

Laboratory: Complete 8

Understanding and Using Lotus 1-2-3

1. Part 2: Unit 6
2. Part 2: Unit 7
3. Application B
4. Application C

Steps:

1. Read assignments in textbook
2. Practice Lotus 1-2-3 commands in textbook
3. Answer Reviews Questions in textbook (if included)
4. Complete the Guided Activities in textbook (if included)
5. Complete Quiz 3
6. Complete Test 3

Evaluation:

## Self-Study:

Quiz #3

Test #3 (objective)

## Laboratory:

Applications B and C (performance)

# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (LABORATORY)

### Assignment #9 - Lab 9

Unit Title Lotus 1-2-3

Assignment Is Associated With: Unit 11 - Lotus 1-2-3

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will be able to:

Concerning Lotus 1-2-3:

1. Describe the five types of graphs and the appropriate uses of each
2. Define any of the types of graph
3. Add titles and legends to the graph
4. Save the graph for later printing
5. Name the graph for later recall
6. Print a copy of a previously saved graph

Concerning the importance to health care:

1. Describe functions
2. Describe types of programs
3. Describe spreadsheet capability
4. Describe creating a template
5. Describe summary sheets
6. Describe financial reports
7. Describe utilizing spreadsheets
8. Describe facilities data base management
9. Describe materiel management
10. Describe productivity measurement
11. Describe spreadsheet models for the dietetics department
12. Describe labor negotiations information spreadsheet
13. Describe labor market analysis spreadsheet
14. Describe spreadsheets to determine staffing needs
15. Describe spreadsheets for budget control and forecasting
16. Discuss summary information
17. Describe graphics hardware/software requirements
18. Discuss admitting statistics
19. Discuss dietetics
20. Describe facilities management

21. Describe materiel management
22. Describe nursing
23. Describe operating rooms
24. Discusses summary information

Materials Required:

Self-Study:

Textbook

Laboratory:

Textbook

One (1) Floppy Disk

Lotus 1-2-3 Program Disk

Lotus 1-2-3 Data Disk from West Publishing Co.

IBM PC

Laboratory Handouts: None

Learning Activities (assignments):

Laboratory: Complete Lab 9

Understanding and Using Lotus 1-2-3

1. Part 2: Unit 8
2. Part 2: Unit 9
3. Application D

Microcomputers in Health Care Management

1. Chapter 4
2. Chapter 7

Steps:

1. Read assignments in textbook
2. Practice Lotus 1-2-3 commands in textbook
3. Answer Reviews Questions in textbook (if included)
4. Complete the Guided Activities in textbook (if included)
5. Complete Test 3

Evaluation:

Self-Study:

Test #3 (objective)

Laboratory:

Application D (performance)

Microcomputer Applications for Health Care Professionals

STUDENT'S GUIDE (LABORATORY)

Assignment #10 - Lab 10

Unit Title: dBASE III

Assignment Is Associated With: Unit 12 - dBASE III

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will be able to:

1. Prepare a disk for use
2. Copy single files
3. Copy all files
4. Copy an entire disk
5. Define data base management terms
6. Describe important considerations before you begin to create a data base system
7. Describe a simple data base system on paper
8. Describe the use of the dBASE disks
9. Describe how dBASE uses the keyboard
10. Load the dBASE program

Materials Required:

Self-Study:

Textbook

Laboratory:

Textbook

One (1) Floppy Disk

dBASE III Program Disk

dBASE III Data Disk from West Publishing Co.

IBM PC

Laboratory Handouts: None

Learning Activities (assignments):

Laboratory: Complete Lab 10

Understanding and Using dBASE III

1. Appendix A
2. Part 1: Page 1
3. Part 1: Unit 1
4. Part 1: Unit 2
5. Application A

Steps:

1. Read assignments in textbook
2. Practice dBASE III commands in textbook
3. Answer Reviews Questions in textbook (if included)
4. Complete the Guided Activities in textbook (if included)
5. Complete Quiz 4
6. Complete Quiz 4

Evaluation:

## Self-Study:

Quiz #4

Test #4 (objective)

## Laboratory:

Application A (performance)

Microcomputer Applications for Health Care Professionals

STUDENT'S GUIDE (LABORATORY)

Assignment #11 - Lab 11

Unit Title: dBASE III

Assignment Is Associated With: Unit 13 - dBASE III

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will be able to:

1. Describe the various types of fields
2. Describe how to structure a data file
3. Create a data file
4. Enter data into the file
5. Display the file contents
6. Change enteries in the file
7. Backup data files
8. Differentiate between logical conditions and computed expressions
9. Define "order of precedence"
10. Describ how each of the operators is used in expressions and conditions
11. Describe the various categories of functions
12. Write expressions and conditions using the various operators
13. Write expressions and conditions using functions
14. Utilize each of the summary statistics commands

Materials Required:

Self-Study:

Textbook

Laboratory:

Textbook

One (1) Floppy Disk

dBASE III Program Disk

dBASE III Data Disk from West Publishing Co.

IBM PC

Laboratory Handouts: None

Learning Activities (assignments)

Laboratory: Complete Lab 11

Understanding and Using dBASE III

1. Part 1: Unit 3
2. Part 2: Page 41
3. Part 2: Unit 4
4. Part 2: Unit 5
5. Application A
6. Application B

Steps:

1. Read assignments in textbook
2. Practice dBASE III commands in textbook
3. Answer Reviews Questions in textbook (if included)
4. Complete the Guided Activities in textbook (if included)
5. Complete Quiz 4
6. Complete Test 4

Evaluation:

## Self-Study:

Quiz #4

Test #4 (objective)

## Laboratory:

Application A (performance)

Application B (performance)



# Microcomputer Applications for Health Care Professionals

## STUDENT'S GUIDE (LABORATORY)

### Assignment #12 - Lab 12

Unit Title: dBASE III

Assignment Is Associated With: Unit 14 - dBASE III

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will be able to:

1. Describe the record pointer and current record
2. Differentiate between sorting and indexing
3. Describe what ASCII collating sequence means
4. Differentiate between finding locating
5. Sort a file
6. Index a file
7. Find a record
8. Locate records
9. Identify the purpose a file serves by the file extension
10. Describe the purpose of the various operating parameter and how to alter those parameters
11. Obtain a directory of data files on a disk
12. Obtain a directory of all files on a disk
13. Obtain a directory of all files of a certain type
14. Copy all or a portion of a data file to another data file
15. Copy all or a portion of a data file to a file suitable for importation into a spreadsheet or wordprocessing program
16. Display the current settings of function keys
17. Change the current settings of function keys

### Materials Required:

#### Self-Study:

Textbook

#### Laboratory:

Textbook

One (1) Floppy Disk

dBASE III Program Disk

dBASE III Data Disk from West Publishing Co.

IBM PC

Laboratory Handouts: None

Learning Activities (assignments):

Laboratory: Complete Lab 12

Understanding and Using dBASE III

1. Part 2: Unit 6
2. Part 2: Unit 7
3. Application B
4. Application C

Steps:

1. Read assignments in textbook
2. Practice dBASE III commands in textbook
3. Answer Reviews Questions in textbook (if included)
4. Complete the Guided Activities in textbook (if included)
5. Complete Quiz 5
6. Complete Test 5

Evaluation:

Self-Study:

- Quiz #5 (objective)
- Test #4 (objective)

Laboratory:

- Application B (performance)
- Application C (performance)

Microcomputer Applications for Health Care Professionals

STUDENT'S GUIDE (LABORATORY)

Assignment #13 - Lab 13

Unit Title: dBASE III

Assignment Is Associated With: Unit 15 - dBASE III

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will be able to:

1. Differentiate among edit, change and replace commands
2. Describe the various stages of the record deletion process
3. Combine two data files
4. Change selected fields of selected records
5. Replace field contents on a selective basis
6. Delete, recall, and purge records
7. Modify the structure of a data file
8. Define the terminology of reports
9. Create and produces a report
10. Create labels using dBASE III

Materials Required:

Self-Study:

Textbook

Laboratory:

Textbook

One (1) Floppy Disk

dBASE III Program Disk

dBASE III Data Disk from West Publishing Co.

IBM PC

Laboratory Handouts: None

Learning Activities (assignments):

Laboratory: Complete Lab 13

Understanding and Using dBASE III

1. Part 2: Unit 8
2. Part 2: Unit 9
3. Part 2: Unit 10
4. Application C
5. Application D

Steps:

1. Read assignments in textbook
2. Practice dBASE III commands in textbook
3. Answer Reviews Questions in textbook (if included)
4. Complete the Guided Activities in textbook (if included)
5. Complete Quiz 5
6. Complete Test 4

Evaluation:

## Self-Study:

Quiz #5 (objective)

Test #4 (objective)

## Laboratory:

Application C (performance)

Application D (performance)

Microcomputer Applications for Health Care Professionals

STUDENT'S GUIDE (LABORATORY)

Assignment #14 - Lab 14

Unit Title: Applications for Health Care Professionals

Assignment Is Associated With: Unit 16 - Applications for  
Health Care Professionals

Time Required: 7 hours

Objectives: Upon completion of this lab, the student will  
be able to:

1. Describe field, records and files
2. Describe storing information
3. Describe sorting data
4. Describe report generation
5. Describe memory
6. Describe choosing a DBM program
7. Describe special purchase tracking
8. Describe project tracking
9. Describe facilities management
10. Describe an environmental quality assurance program
11. Describe financial management
12. Describe medical records applications

Materials Required:

Self-Study:  
Textbook

Laboratory Handouts: None

Learning Activities (assignments):

Laboratory: Complete Lab 14

Microcomputers in Health Care Management

1. Chapter 6

Paper:

1. Use of microcomputers in the student's health care discipline
2. Use of word processing and a spreadsheet and data base application designed by student

Steps:

1. Read assignments in textbook
2. Test 4
3. Complete paper

Evaluation:

Self-Study:

Test #4 (objective)

Laboratory:

Application D (performance)

Paper



**INSTRUCTOR'S COURSE  
SYLLABUS**

Microcomputer Applications for Health Care Professionals

INSTRUCTOR'S COURSE SYLLABUS

COURSE TITLE: MICROCOMPUTER APPLICATIONS FOR HEALTH CARE PROFESSIONALS

COURSE NUMBER:

<u>Prefix</u>	<u>No.</u>	<u>0</u>	<u>135</u>	<u>3</u>
		Lecture Hrs.	Lab Hrs.	Credit Hrs.

CATALOG DESCRIPTION:

An introduction to microcomputer use in health care settings. Topics include computer system information, wordprocessing, spreadsheets, data base management, and applications for the health care professional.

PREREQUISITE:

None

TEXTS:

Essentials of Data Processing, by Nancy A. Floyd,  
Times Mirror/Mosby College Publishing, 1987.

Microcomputers in Health Care Management, by  
William W. Christensen and Eugene I. Stearns, Aspen  
Publication, 1984.

Understanding and Using WordStar, by Steven C. Ross,  
West Publishing Company, 1986.

Understanding and Using Lotus 1-2-3, by Steven C. Ross,  
West Publishing Company, 1986.

Understanding and Using dBase III, by Steven C. Ross,  
West Publishing Company, 1986.

NOTE TO INSTRUCTOR: You may want to have several copies of the textbook, Microcomputers in Health Care Management, available to students on reserve in the library if the cost of textbooks is a concern.



ALTERNATE TEXTS:

Concepts and Issues in Health Care Computing,  
by H. Dominic Covey, Nancy H. Craven, and  
Neil H. McAlister, C. V. Mosby Company, 1987.

Using IBM Microcomputers, by Keiko M. Pitter and  
Richard L. Pitter, Mitchell Publishing, Inc., 1986.

REFERENCES:

Computer Annual, by Robert H. Blissmer, John Wiley  
& Sons, 1986-1987.

Four Software Tools, by Tim Duffy, Wadsworth  
Publishing Company, 1987.

Power Pack for the IBM PC, by Dravillas/Stillwell/  
Williams, Times Mirror/Mosby College Publishing, 1986.

Understanding and Using Microcomputers, by Steven M.  
Zimmerman and Leo M. Conrad, West Publishing Company,  
1986.

Using Applications Software, by Donald H. Bell,  
Ashton-Tate Publishing Group, 1986.

EQUIPMENT AND MATERIALS REQUIRED:

**HARDWARE:** IBM PC with 2 disk drives and compatible  
printer per student

**SOFTWARE:** WordStar software and manual per student

WordStar Data Disk from West Publishing Co.

Lotus 1-2-3 software and manual per student

Lotus 1-2-3 Data Disk from West Publishing Co.

dBASE III software and manual per student

dBASE III Data Disk from West Publishing Co.

INSTRUCTIONAL PROCESS:

1. This is a self-paced course that will take approximately 135 hours to complete for 3 hours credit.
2. Reading and laboratory assignments can be found in the materials, Student's Guide (Laboratory), attached.

3. A paper describing the use of microcomputers in the student's health care discipline will be required. The paper will contain a section on the use of word processing and a spreadsheet and database application designed by the student.
4. Tests and quizzes will be given.
5. Application program disks, data disks, and tests and quizzes are available from the check-out desk in the Learning Resource Center.
6. All laboratory assignments, tests and quizzes, and the paper must be completed by the last day of the course. Although this is a self-paced course, there is a class schedule attached to the Student's Course Syllabus. The student may use it as a suggested schedule to complete the course if so desired.
7. The student who has knowledge and experience in any of the course content may demonstrate proficiency and receive credit for it by successfully completing tests, quizzes, laboratory assignments, and/or the paper.

NOTE TO INSTRUCTOR:

The textbook, Essentials of Data Processing, by Nancy A. Floyd comes with complementary copies of an instructor's guide, a test bank and a student study guide. A computerized testing package, Microtest, is also complementary when twenty-five (25) or more copies of the textbook is ordered for students to purchase. Contact C. V. Mosby Company at 1-800-325-4177 for procedures to secure these items.

The textbooks on WordStar, Lotus 1-2-3, and dBASE III come with complementary copies of an instructor's manual and test bank and the data disk listed in the software needs section. Contact West Publishing Co. at 1-800-328-9424 for procedures to secure these items.

EVALUATION OF STUDENTS:

Examinations: Four unit tests will be given.

Quizzes: Five quizzes will be given periodically. Each quiz will be similar to exam questions.

Paper: One paper will be required.

Laboratory Assignments: These will be found in the Student's Guide (Laboratory).

NOTE TO INSTRUCTOR:

Items for tests and quizzes on the Floyd and Ross textbooks are located in the materials available from the respective publishers.

Items for tests and quizzes on the textbook, Microcomputers in Health Care Management, by Christensen and Stearns are attached to the Instructor's Syllabus.

FINAL GRADE DETERMINATION:

Grades for the semester will be determined based on the accumulated points earned. To determine a tentative grade, divide the total points earned by the total possible points. The grading scale will be strictly 90, 80, 70, 60 percent of the possible points.

Approximately 40% of the total points will be from lab assignments, 20% from tests, 20% from quizzes, and 20% from the paper.

COMPETENCY STATEMENTS:

By the end of the course, the student will be able to:

1. Initialize a diskette.
2. Prepare a backup file.
3. Maintain a backup file.
4. Create documents using word processing software.
5. Edit, save, and retrieve documents using WPS.
6. Key data into an electronic spreadsheet.
7. Create an electronic spreadsheet.
8. Enter formulas into an electronic spreadsheet.
9. Retrieve an electronic spreadsheet file.
10. Copy an electronic spreadsheet file.
11. Edit and combine electronic spreadsheet files.
12. Create an electronic database file.
13. Key data into an electronic database file.
14. Retrieve database files.
15. Copy database files.
16. Edit database files.
17. Create charts using computer graphics software.
18. Edit, save, and retrieve data using graphics software.
19. Print document using continuous-feed paper on dot matrix, letter quality, and/or laser printer.
20. Print document using single-sheet paper.
21. Output information according to sort criteria.
22. Send and receive messages via electronic mail system.
23. Merge text files using WPS.
24. Merge electronic spreadsheet files.
25. Import data from external source for graphics presentation.

26. Log on to use network software.
27. Explain the basic concepts of word processing.
28. Describe the components of a word processing system.
29. Describe the components of the information processing cycle.
30. Describe the various technologies used to create, store, retrieve, process, and distribute information.
31. Explain the basic concepts of electronic spreadsheets.
32. Explain the basic concepts of database management.
33. Explain the basic concepts of telecommunications.
34. Define desktop publishing.
35. Describe the components of computer hardware.
36. Describe the two basic types of software.
37. Explain the ways in which operating systems can be used.
38. Describe the different levels of programming languages.
39. Describe the role of computers in business and society.
40. Explain the use of a local area network.
41. Describe the factors to be considered in selecting a computer.
42. Describe the factors to be considered in selecting applications software.
43. Describe the role of computers in business and society (hospitals).

#### COURSE OUTLINE:

#### CONTENTS OF UNIT 1: Information on Computer Systems

1. The components of computer hardware
2. The two basic types of software
3. The ways in which operating systems can be used
4. The different levels of programming languages
5. The role of computers in business, medicine, allied health and society
6. The factors to be considered in selecting a microcomputer
7. The factors to be considered in selecting applications software
8. The basic concepts of telecommunications
9. The components of the information processing cycle

#### CONTENTS OF UNIT 2: Information on Computer Systems (Cont.)

1. The microcomputer revolution
2. The database and its evolution
3. The basic concepts of electronic spreadsheets
4. The basic concepts of wordprocessing
5. The basic concepts of database management
6. The use of graphics

Instructor's Course Syllabus

7. The use of networking
8. The current issues in telecommunications

CONTENTS OF UNIT 3: Wordprocessing - WordStar

1. Getting Started on Your Microcomputer
2. Fundamental Operations
3. The WordStar Environment
4. Creating a Document
5. File Management

CONTENTS OF UNIT 4: Wordprocessing - WordStar

1. Quick Look At Menus
2. Menu Editing Commands
3. Markers and Block Move, Copy and Delete

CONTENTS OF UNIT 5: Wordprocessing - WordStar

1. Find and Replace
2. File Operations
3. Onscreen Formatting

CONTENTS OF UNIT 6: Wordprocessing - WordStar

1. Pagination, Headings and Footings
2. Printing Special Effects

CONTENTS OF UNIT 7: Wordprocessing - WordStar

1. Print Command Options
2. Help Menu
3. Applications for Health Care Professionals

CONTENTS OF UNIT 8: Spreadsheets - Lotus 1-2-3

1. Getting Started on Your Microcomputer
2. Fundamental Spreadsheet
3. Operations
4. The Lotus Environment
5. The Lotus Worksheet
6. Operators and Functions

CONTENTS OF UNIT 9: Spreadsheets - Lotus 1-2-3

1. Changing the Appearance of the Worksheet
2. Print Command

## CONTENTS OF UNIT 10: Spreadsheets - Lotus 1-2-3

1. Calculation
2. Copy and Move Commands

## CONTENTS OF UNIT 11: Spreadsheets - Lotus 1-2-3

1. Screen Graphics
2. Paper Graphics
3. Applications for Health Care Professionals

## CONTENTS OF UNIT 12: Data Base Management - dBASE III

1. Getting Started on Your Microcomputer
2. Fundamental Data Base Operations
3. The Data Base Concept
4. The dBase Environment

## CONTENTS OF UNIT 13: Data Base Management - dBASE III

1. Data File Creation
2. Intermediate Data Base Operations
3. Conditions/Expressions
4. Summary Statistics

## CONTENTS OF UNIT 14: Data Base Management - dBASE III

1. Data File Order and Search
2. Operating Parameters and Disk Files

## CONTENTS OF UNIT 15: Data Base Management - dBASE III

1. Data File Changes
2. Report Generation
3. Label Generation

## CONTENTS OF UNIT 16: Data Base Management - dBASE III

1. Applications for Health Care Professionals

# Microcomputer Applications for Health Care Professionals

## Test Items for Textbook:

### Microcomputers in Health Care Management

#### CHAPTER 3:

1. Microcomputers are generally designed to be used:
  - a. by one person at a time
  - b. as part of a network
  - c. in conjunction with a minicomputer
  - d. as an adjunct to a mainframe computer

Answer: A Reference: p. 38

2. The most important objective to keep in mind while considering the purchase of a microcomputer system is
  - a. the cost
  - b. what applications programs will be used
  - c. its intended use
  - d. the memory capacity

Answer: C Reference: p. 38

3. Which is not a limitation of microcomputer programs?
  - a. the external memory available
  - b. the internal memory available
  - c. the types of application programs available
  - d. the actual algorithms in the program itself

Answer: C Reference: p. 40

4. Health care staff members may feel \_\_\_\_\_ often associated with the introduction of new technology.
  - a. relief
  - b. anxiety
  - c. excitement
  - d. possessiveness

Answer: B Reference: p. 42

## CHAPTER 3 cont.

5. To encourage the health care staff to use the micro-computer constructively:
- develop a schedule so everyone works on the computer everyday
  - assign one person at a time to work with an application program until he knows it well
  - arrange demonstrations that show the effectiveness of the microcomputer by experts
  - make assignments that allow staff members to interact with the computer in a useful and successful way

Answer: D Reference: p. 43

CHAPTER 4:

1. Which is not a function of a spreadsheet program?
- project tracking
  - mean, median of a given series
  - mathematical operations
  - column width

Answer: A Reference: p. 54

2. The template is used to:
- create rows and columns
  - provide a format for any account by plugging in appropriate information
  - perform mathematical calculations
  - produce a printed report

Answer: B Reference: p. 60

3. An example of materiel management would be:
- a cost summary of expended supplies
  - physical measurements
  - the number of items used per patient per day
  - employee grievances

Answer: C Reference: p. 72



## CHAPTER 4 cont.

4. Types of productivity measurement do not include:

- a. management productivity
- b. total factor productivity
- c. simple outcome indicators
- d. partial factor productivity

Answer: A Reference: p. 79

5. Health care professionals could find uses for spreadsheets in determining personnel needs by:

- a. performing labor market analyses
- b. preparing for and carrying out labor contract negotiations
- c. projecting appropriate staff levels for a defined area
- d. A, B and C

Answer: D References: pp. 92, 96 and 99

CHAPTER 5:

1. In microcomputer word processing, the two basic types of memory are:

- a. ROM-based and RAM-based
- b. tape-based and disk-based
- c. RAM-based and disk-based
- d. ROM-based and tape-based

Answer: C Reference: p. 130

2. The mass storage system typically used with a microcomputer is:

- a. the floppy disk
- b. magnetic tape
- c. the hard disk
- d. magnetic disk

Answer: A Reference: p. 130

3. Spooling means:

- a. text can be continuously scrolled on the CRT
- b. the user can interact with the system while the system is printing text
- c. the rotation of the floppy disk in the disk drive
- d. storing data on magnetic disks

Answer: B Reference: p. 133

## CHAPTER 5 CONT.

4. Which is not an advantage of using microcomputers for word processing?
- a. cost
  - b. ease of learning procedures
  - c. use by many people
  - d. small memory capacity

Answer: D Reference: p. 133

5. Which is not a word processing application that can be used by health care professionals?
- a. creation and editing of articles and books
  - b. financial reports
  - c. standard document formats
  - d. policy and procedure manuals

Answer: B Reference: p. 156

CHAPTER 6:

1. Which is the correct sequential progression?
- a. fields - records - files
  - b. letters - data - records
  - c. files - fields - documents
  - d. characters - strings - reports
- Answer: A Reference: p. 157
2. All data fields butted directly up against each other describes a:
- a. random access file
  - b. document file
  - c. sequential file
  - d. non-document file
- Answer: C Reference: p. 158
3. Data transfer rate is fastest when using a:
- a. floppy disk
  - b. hard disk
  - c. magnetic tape
  - d. bubble sort

Answer: B Reference: p. 161

## CHAPTER 6 cont.

4. When very large amounts of data are to be stored, your best choice would be to use a:
- floppy disk
  - hard disk
  - magnetic tape
  - bubble sort

Answer: B Reference: p. 162

5. A data base management program would not be used by health care professionals for:
- special purchase tracking
  - project tracking
  - facilities management
  - transcendental functions

Answer: D References: pp. 163, 165 and 170

CHAPTER 7:

1. The number of dots of light that can be controlled by the microcomputer is the definition for:
- resolution
  - pixels
  - dot matrix
  - chips

Answer: C Reference: p. 211

2. Which is not a type of graph that could be used by health care professionals?
- line
  - scatter
  - plot
  - bar

Answer: C Reference: p. 213

3. The major advantage of using a graph over a table is that it:
- can provide a better picture of the information
  - is easier to interpret
  - is easier to read
  - A and C

Answer: A Reference: p. 215

## CHAPTER 7 cont.

4. Comparing data, such as the delay between the time during which an expense is incurred and the time that it is shown on a financial statement, is best represented in a:
- pie chart
  - double line graph
  - bar graph
  - scatter plot

Answer: B Reference: p. 222

5. Microcomputer graphics provide an invaluable tool to the health care manager because of its:
- reasonable cost
  - easy picture interpretation
  - data manipulation capabilities
  - A and C

Answer: A Reference: p. 225