

Fall 9-1-2005

CRT 101.05: Introduction to Computers

Niki L. Robinson

University of Montana - Missoula, Niki.Robinson@umontana.edu

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Recommended Citation

Robinson, Niki L., "CRT 101.05: Introduction to Computers" (2005). *Syllabi*. 9973.
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**THE UNIVERSITY OF MONTANA—MISSOULA
COLLEGE OF TECHNOLOGY
BUSINESS TECHNOLOGY DEPARTMENT**

COURSE SYLLABUS

COURSE NUMBER AND TITLE: CRT 101 - INTRODUCTION TO COMPUTERS

DATE REVISED: Fall 2005

SEMESTER CREDITS: 2

PREREQUISITES: None

FACULTY: Niki Robinson

E-Mail: Niki.Robinson@mso.umt.edu

Phone: 243-7802

Office: across from AD12

Office Hours: 10 – 11 a.m.

CRT 101 Web Page: http://www.cte.umt.edu/course_pages/CRT101/

RELATIONSHIP TO PROGRAM(S):

This course provides students with a comprehensive foundation for computer technology, hardware, and software through practical activities.

COURSE DESCRIPTION: Introduction to computer terminology, hardware and software. Includes basic microcomputing applications (word processing, spreadsheets, database, and presentation) commonly used in business and industry. Keyboarding is included. Internet and e-mail are introduced. Credit not allowed for both CRT 101 and CS 111.

STUDENT PERFORMANCE OUTCOMES:

Occupational Performance Objectives

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

1. Define and explain basic microcomputer hardware and software terminology.
2. Describe and select strategies for purchasing a microcomputer system.
3. Proficiently operating a graphical user interface; and operate a mouse.
4. Describe and use basic operating features of Windows Desktop Accessories (Calculator, Wordpad, Paint) and use Windows Explorer for file management tasks including creating directories, deleting, moving and copying files, and backing up files.
5. Describe and use basic operating features of a popular integrated software suite. Use a word processing application to format basic business correspondence. Use a spreadsheet application to calculate and format numbers. Use a database application to organize information for searching, sorting and selecting data. Use graphical presentation application to present information to a group of people.
6. Key text at a minimum of 25 wpm for three minutes with three errors or less.

7. Independently proofread and apply universal proofreading marks to make necessary editions to business documents.
8. Send and receive e-mail to/from instructor and other students.
9. Select a browser and apply research strategies to search the World Wide Web for assigned information.
10. Describe and apply ethical guidelines to e-mail communication, to security of computer hardware and software, and to privacy issues of computer data.
11. Troubleshoot and correct basic hardware/software malfunctions, such as printing errors and network errors.

STUDENT PERFORMANCE ASSESSMENT METHODS AND GRADING PROCEDURES:

Keyboarding

1. Keyboarding speed of **25 wpm** is required for completion of this course. Submitting three 3-minute timings with 3 errors or less is the minimum requirement.
2. Keyboarding drills will be submitted by students who cannot attain three 3-minute timings with 3 errors or less.

Production and Testing

1. Document production activities will occur on a regular, if not daily basis. Class attendance is an integral part of this course. It is the expectation that in-class production or homework assigned outside of class will be turned in when due. If you are not present, it is your responsibility to see that it is in faculty mailbox by 4:00 p.m. on the due date. Assignments are not accepted beyond the identified due date.
2. The test schedule and dates are included in the daily schedule on the syllabus. Tests will be written or produced using a computer. Makeup for tests is not offered unless faculty is notified and guidelines are identified for the individual situation.

Grading Scale:

- 94 - 100 A
- 88 - 93 B
- 80 - 87 C
- 74 - 79 D

Final grade will be determined by total points received on production, homework and tests in relationship to total points available.

NOTE: Health Occupations program students must pass this course with a "C" grade (80 percent). These students will not be allowed to continue with their chosen program the next semester if the grade is not "C" (80 percent) or above.

ATTENDANCE POLICY:

Students are expected to come prepared for class each day and to participate in the assigned activity. In-class activities account for a substantial portion of the final grade.

ACADEMIC INTEGRITY: Students are required to adhere to standards of academic integrity. Students should review The University of Montana Student Conduct Code regarding their rights and responsibilities. The Conduct Code is located at <http://www.umt.edu/studentaffairs/>.

DISABILITY ACCOMMODATION: Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please speak with me after class or in my office. Please be prepared to provide a letter from your DSS Coordinator.

REQUIRED TEXT: *Computers Are Your Future 2006*, B. Daley, Prentice Hall, Upper Saddle River, NJ 2005.

SUPPLIES: One 3.5" diskette, HD (high density) is required for saving student data.

COURSE OUTLINE:

- I. Computer Fundamentals
 - A. Hardware and Software Terminology
 1. Basic Definitions
 2. System Unit
 - a. motherboard
 - b. central processing unit (CPU)
 - c. memory (description/updating)
 3. Processing
 4. Input/Output Devices
 5. Storage Devices
 6. Software
 7. Communications
 8. Types of Computers
 - B. Processors (CPU)
 1. Data Representation
 2. Types/Differences
 3. Purchasing and Performance Issues
 - C. Input Devices
 1. Types/Differences
 - a. keyboard
 - b. mouse
 - c. audio
 - d. digital
 - e. alternative
 2. Factors Influencing Purchase
 - D. Output Devices
 1. Types/Differences
 - a. monitors
 - b. printers
 - c. audio
 - d. alternative
 2. Factors Influencing Purchase

- E. Storage
 - 1. Storage Technology (Magnetic/Optical)
 - 2. Care
 - 3. Floppy DD/HD
 - 4. Zip
 - 5. Hard Disks
 - 6. CD ROM
 - 7. DVD
 - 8. Memory vs. Storage
 - F. Software
 - 1. Application Software
 - a. integrated suites
 - 2. Operating System Software
 - a. graphical environment
 - b. command line environment
 - 4. Netware
 - 5. Licensing
- II. Keyboarding (Text provided by department)
- A. All Key Reaches
 - B. Timings (1, 2, 3-minute)
 - C. Tutorials on Network
- III. Windows Operating System
- A. Mouse Basics
 - B. File Management Using Windows Explorer
 - 1. Formatting Disks
 - a. file allocation table (FAT)
 - b. tracks
 - c. sectors
 - 2. Hierarchy
 - 3. Create a Folder/Make a Directory (MD)
 - 4. Change Folder/Directory (CD)
 - 5. Delete/Remove Folder/Directory (RD)
 - 6. File Names. Extensions
 - 7. Delete a File - restore
 - 8. Copy (File, Folder, Disk)
 - 9. Status Bar
 - 10. Version
 - 11. Task Bar
 - 12. Windows Explorer Views
 - C. Functions of Settings, Control Panel, etc.
 - 1. Time and Date Settings
 - 2. Display Customization
 - D. Basic Operations
 - 1. Desktop/Windows
 - 2. Opening/Closing/Executing
 - 3. Maximum/Minimizing
 - 4. Scrolling
 - 5. Moving/Copying
 - E. Accessories
 - F. Applications
 - G. Other Features at a Glance

- IV. Local and World Wide Communication
 - A. Internet
 - 1. Introduction/History
 - 2. Internet and Web Basics
 - a. hypertext concept
 - b. web browsers
 - c. web servers
 - d. web pages
 - 3. Internet Services
 - 4. Search Engines and Search Techniques
 - 5. Search Result Evaluation
 - B. Communication
 - 1. UM Based (Cyberbear)
 - 2. Internet Based

- V. Microsoft Office Suite
 - A. Word (word processing)
 - B. Excel (spreadsheet)
 - C. Access (database)
 - D. PowerPoint (presentation)

- VI. General Topics
 - A. Ethics
 - B. Network Technology
 - 1. Wire
 - 2. Wireless
 - C. Security
 - 1. Hardware
 - 2. Software
 - 3. Disk
 - D. Legality Issues
 - E. Ergonomics/Health Issues
 - F. Supplies
 - 1. Wrist Rests
 - 2. Mouse Pads
 - 3. Screen Savers
 - 4. Disk Containers
 - 5. Disk Types
 - 6. Labels