

RANGER COLLEGE
SYLLABUS
Fall Semester 2010

COURSE NUMBER AND TITLE: ITSC 1325 Personal Computer Hardware
CREDIT HOURS: 3 **HRS/WK LEC:** 2 **HRS/WK LAB:** 2 **LEC/LAB COMB:** 4

Name of Instructor: Michael Cunningham Office Location: Library E-Mail: mcunningham@rangercollege.edu
Location: Ranger College, Main Campus Phone: 254 647-1414
Office Hours: When Library is open

Monday / Wednesday	Tuesday / Thursday
LAB-12pm-1pm W	12:25-1:40PM

I. CATALOG DESCRIPTION:

The course is a study of current personal computer hardware including personal computer assembly and upgrading, setup and configuration, and troubleshooting.

II. COURSE CONTENT:

This course is designed to familiarize the student with the hardware of the personal computer. The course content will include concepts, terminology, and hands_on experience with computers.

III. REQUIRED BACKGROUND/PREREQUISITES: none

IV. TEXTBOOKS AND MATERIALS:

A+ Guide to Hardware, Managing, Maintaining, and Troubleshooting, *Fourth Edition, Course Technology, Jean Andrews, 2007*

V. METHODS OF INSTRUCTION:

Lectures, supervised learning in a computer lab, audio and visual aids, instructor_provided supplementary handout materials, tests.

VI. SCANS COMPETENCIES:

READING:

1.1 locate, understand, interpret written information in prose and in documents as manuals, graphs, schedules

WRITING:

2.1 Communicates written thoughts, ideas, information, and messages

2.2 Create documents as letters, directions, manuals, reports, graphs and flowcharts

RESOURCES:

4.2 Allocates money

SYSTEMS: UNDERSTANDS COMPLEX INTER-RELATIONSHIPS:

7.1 Understand systems

TECHNOLOGY

8.1 Selects Technology – Chooses procedures, tools equipment, computer hardware and software, and related technology.

8.2 Applies Technology to Task – Understands overall intent and proper procedures for setup and operation of equipment and computer hardware and software.

8.3 Maintains and Troubleshoots Equipment – Prevents, identifies, or solves problems with equipment and computer hardware and software and software and other technologies.

THINKING SKILLS:

9.5 Knowing how-to-learn

VII. COURSE OBJECTIVES:

After studying the material presented in this course of study, the student should be able to do the following:

1. Assemble/setup personal computer systems. (SCANS 1.1, 7.1, 8.2)
2. Upgrade personal computer systems. (SCANS 8.2, 8.3)
3. Diagnose and isolate faulty components. (SCANS 8.2, 8.3)
4. Optimize system performance. (SCANS 7.1, 8.1, 8.2, 8.3, 9.5)
5. Install/connect peripherals.
6. Identify parts of a personal computer system.
7. Identify types of software.
8. Use recent versions of the Windows operating system at the level of support personnel.
9. Perform basic networking operations and identify network components.

VIII. COURSE CALENDAR

WEEK LECTURE / LAB

- | | |
|----|--|
| 1 | Introduction, Syllabus |
| 2 | Chapter 1, "Hardware Needs Software to Work" |
| 3 | Chapter 2, "PC Repair Fundamentals" |
| 4 | Chapter 3, "Form Factors and Power Supplies" |
| 5 | Exam 1 - Chapters 1, 2, 3
Chapter 4, "Processors and Chipsets" |
| 6 | Chapter 5, "Motherboards" |
| 7 | Chapter 6, "Upgrading Memory" |
| 8 | Exam 2 - Chapters 4, 5, 6
Chapter 7, "Hard Drives" |
| 9 | Chapter 8, "Installing and Supporting I/O Devices" |
| 10 | Chapter 9, "Multimedia Devices and Mass Storage" |
| 11 | Exam 3 - Chapters 7, 8, 9 |
| 12 | Chapter 10, "PCs on a Network" |
| 13 | Chapter 11, "Notebooks, Tablet PCs, and PDAs" |
| 14 | Chapter 12, "Supporting Printers and Scanners" |
| 15 | Complete All Assignments, Review for Final Exam |

Final Exam - Chapters 10, 11, 12

The above schedule and procedures in this course are subject to change in the event of extenuating circumstances. Daily assignments, as well as tests, will include a written component.

IX. COURSE/CLASSROOM POLICIES:

1. Attendance/Punctuality. Regular and punctual attendance is required of all students. Attendance will be checked at the beginning of each class period. Students coming into class after the roll has been checked will be counted absent.
2. Class Participation. Students are expected to attend all classes and stay for the entire class time. Students are expected to participate in class discussions and group projects.
3. Missed Exams/Assignments/Make up Policy. You are strongly encouraged to always take exams on time. Permission to make up work is given on an individual basis. Work may be made up for absences due to authorized College activities. For these types of absences, make_up work is due within two weeks of the absence, and it is the student's responsibility to see that make_up work is completed as soon as possible.
4. Academic Honesty. Any student caught cheating on an exam or other assignment may be given an F as the final course grade. Cheating is grounds for dismissal from the course. Students are expected to learn the material in an honest and ethical way.
5. Student Behavior. When the activities of a student disrupts the class in such a manner as to impede the learning process of other class members, the student will be dismissed from the class and reported to the Dean of Students for disciplinary action. Inappropriate behavior includes: being tardy, leaving the classroom without permission from the instructor, sleeping in class, talking, interrupting the class in any way, and showing disrespect to others. Cell phones, headphones, CD players, etc., are not allowed in class.
6. Due dates. Assigned work must be completed and submitted to the instructor by the due dates.
7. Available Support Services. Library, Computer Lab, Student Services
8. ADA statement: Ranger College provides a variety of services for students with learning and/or physical disabilities. The student is responsible for making the initial contact with the Ranger College Counselor. It is advisable to make this contact before or immediately after the semester begins.

COMPUTER LAB POLICIES

1. Students have an assigned class time to attend the computer lab. Do not interrupt other classes that are in progress in the lab.
2. Absolutely no food, drink or tobacco is allowed in the lab.
3. VIRUS ALERT Do not use the same storage media (disks, CDs, USB drives, etc.) in the lab and on other computers. You must use separate storage if you are allowed to do some of your lab work at home or on any computer that is not in our lab. Do not bring **ANY** outside disks or drives into our lab—this includes those used in the library or other classrooms. Do not bring or use CDs or DVDs in the lab—this includes music CDs.
4. Do not take your class diskettes/drives from the lab. Your instructor will keep them between class meetings.
5. The computer lab is for class work only. Do not use these computers for entertainment or for personal use.
6. Do not copy, delete, or change any files on the computers in the lab.
7. Do not install any software onto the computers in the lab.
8. Do not download files from the Internet unless instructed to do so by your teacher.
9. All lab users must sign and abide by the “Acceptable Use Policy”.

X. ASSESSMENT:

<u>Your score</u>	<u>Assessment:</u>	<u>Related Course Objectives:</u>
_____	Exam 1 (Chapters 1 - 3)	1, 3, 6, 7, 8
_____	Exam 2 (Chapters 4 - 6)	2, 3, 4, 6
_____	Exam 3 (Chapters 7 - 9)	1, 2, 5, 6
_____	Final Exam - (Chapters 10 - 12)	1, 2, 5, 6, 8, 9
_____	Lab / Homework Assignments	

A	=	90 or higher
B	=	80 - 89
C	=	70 - 79
D	=	60 - 69
F	=	0 - 59

Methods of evaluating achievement of course objectives:

1. Exams will be used to gauge your knowledge of the subject, including knowledge of the terminology of the subject matter and comprehension of concepts. The course textbook, handouts, and lecture notes will be used as standards for evaluation of your work on exams.
2. Lab exercises will be used to evaluate your ability to actually apply knowledge obtained in this course. Your goal should be to produce complete, error_free output within an allotted time frame. The student should strive to follow instructions and to avoid logical errors.

XI. NON-DISCRIMINATION STATEMENT:

Admission, employment, and program policies of Ranger College are non-discriminatory in regard to race, creed, color, sex, age, disability, and national origin.

XII. RECEIPT OF SYLLABUS FORM:

(Separate page: required of all the students enrolled in a course and signed form filed by instructor – see next page)

The above schedule and procedures in this course are subject to change in the event of extenuating circumstances.

Syllabus Receipt
ITSC 1325

Personal Computer Hardware

Please print:

Name: _____

Phone: _____

Home Address: _____

E-Mail Address: _____

What is your educational goal at Ranger College? (Check one option.)

_____ 1. To complete an Associate of Arts or Science degree and transfer to a four-year university.

_____ 2. To complete an Associate of Arts or Science degree for employment or personal purposes.

_____ 3. To complete courses (but not a degree) to transfer to another college.

_____ 4. To complete courses (but not a degree) for employment or personal purposes.

_____ 5. To complete an Associate of Applied Science Degree in a Workforce Education program. (Check which program.):

_____ Computer Information Technology

_____ Office Technology

_____ Welding Technology

_____ 6. To earn a one-semester or one-year Certificate of Completion in a Workforce Education program. (Check which program.):

_____ Computer Information Technology

_____ Cosmetology

_____ Office Technology

_____ Vocational Nursing

_____ Welding Technology

Student Understanding

A course syllabus has been given to me. It has been explained to the class and I have been given the opportunity to ask questions about the syllabus. I understand the policies and procedures of the course and I agree to abide by them. It will be my responsibility to be prepared for class.

Student Signature

Date