# North Central Michigan College

NCMC MASTER COURSE SYLLABUS FOR YEARS 2001-2003

DIVISION/AREA: Business and Technology			DEPARTMENT:				
DIVISION DIRECTOR: Robert J. M	arsh, Ph.D., P.E.	ORIGINATOR: Eugene Branigan					
DEAN OF INSTRUCTION: Timothy Dykstra, Ph.D.							
TOTAL HOURS OF INSTRUCTION	: 3 LECTURE: 1	LAB: 2	TOTAL CONTACT HOURS: 52.8				
COURSE NUMBER: CIS 125		CREDIT HOURS: 3					
COURSE TITLE: PC Hardware		CHE					
TRANSFERABLE YES:	NO: X	TO:		_			
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PREREQUISITE(S)/COREQUISITE(S)/ADVISORY: CIS 100							

## CATALOG DESCRIPTION:

An introduction to computer hardware components and maintenance and upgrade operations a PC owner might perform. This course deals with components such as system boards, adapter cards, hard and floppy disk drives, monitors, memory modules and tape backup units. This course will aid those seeking A+ certification.

#### GENERAL EDUCATION OUTCOMES:

- Think critically and analytically
- Write and speak effectively
- Independently acquire knowledge

# COURSE OBJECTIVES & OUTCOMES:

Upon completion of this course the student should be able to do the following:

- Identify components of a PC
- Identify different operating systems
- Describe the CPU
- Describe how data is processed by the PC
- Know how data is stored and accessed on different media
- Know how the user interacts with the PC

COURSE TITLE AND NUMBER: CIS 125, PC Hardware

- Install new components
- Add multimedia devices to a PC
- Know how to manipulate the BIOS of a PC
- Maintain the PC
- Troubleshoot problems with the PC

METHODS OF INSTRUCTION: Lecture (1/3), hands on lab exercises (2/3) and problems. Homework problems and exams

## METHODS OF EVALUATION:

- Class / Lab participation: 10% of your final mark
   Normal class and lab contributions make up this component. Missing 4 or more classes causes
  you to lose this 10%.
- Review Questions and Exams: 90% of your final mark
   The chapter review questions will make up the majority of your grade, these are open book homework assignments and will be completed for each chapter. Midterm and final exam questions will come directly from the textbook so preparation for the exams is simple, read the book and study the review questions.

REQUIRED TEXTS: Andrews. Enhanced Guide to Managing and Maintaining Your PC 2001, Course Technology / Thompson Learning

OPTIONAL SUPPLEMENTARY MATERIALS: PC Toolkit

Reasonable accommodations may be provided for students with documented physical, sensory, cognitive, systemic, and/or psychiatric disabilities. Please contact the Education Opportunity Program (EOP) at (231) 348-6687 to arrange services for this course.

TIME ALLOWANCE AND SEQUENCE OF INSTRUCTION:

Week Topics Have read before class

1		Introduction, course info.		
2		How Computers Work		Chapter 1
3		How Software and Hardware Work Together		Chapter 2
4		The System Board		Chapter 3
5		Understanding and Managing Memory		Chapter 4
6		Floppy Drives		Chapter 5
7		Introduction to Hard Drives & Hard Drive Installation and Support		Chapter 6-7
8		Midterm Exam		Chapters 1-7
9		Troubleshooting Fundamentals		Chapter 8
10		Supporting I/O Devices		Chapter 9
11		Multimedia Technology		Chapter 10
12		Electricity and Power Supplies		Chapter 11
13		Supporting Windows 9x		Chapter 12
14		Understanding and Supporting Windows NT Workstat	tion	Chapter 13
1. Supporting Windows 2000 Professional Chapte			hapte	er 14
16		Final Exam		Chapters 8-14

APPROVED FOR ADOPTION BY THE CRD/AP COMMITTEE ON \_\_\_\_\_