

MIDSTATE COLLEGE
411 W. NORTHMOOR RD. PEORIA, IL 61614
(309) 692-4092 (800) 251-4299
Spring 2015

Course number & Name: CIS 111 – Personal Computer Hardware

Credit hours: 4

Method of Delivery: Classroom/Online(Flex)

Course Description: This course covers the underlying components of the microcomputer. Topics include the various hardware elements and the software that operates the computer. The main focus is the desktop computer.

Prerequisite: None

Text(s) & Manual(s): The Complete CompTIA A+ Guide to PCs,6th Edition

ISBN-10: 0-7897-4976-5. ISBN-13: 978-0-7897-4976-5.

Author: Cheryl A. Schmidt

Publisher: Pearson Education

Materials needed for this course:

Additional Supplies: None

Hardware/Software and Equipment: LabSim Access Card

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

1. Identify all parts of a PC
2. Discuss the functions and interactions of all PC subsystems
3. Identify and troubleshoot common PC hardware problems
4. Select quality PCs and constituent components based on performance and cost
5. Install, replace, and upgrade PC hardware components
6. Install and troubleshoot PC peripherals such as printers and modems

Midstate Grading scale:

90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D
0 - 59	F

Midstate Plagiarism Policy:

Plagiarism is using another person's words, either by paraphrase or direct quotation, without giving credit to the author(s). Plagiarism can also consist of cutting and pasting material from electronic sources by submitting all or a portion of work for assignment credit. This includes papers, computer programs, music, sculptures, paintings, photographs, etc. authored by another person without explicitly citing the original source(s). These actions violate the trust and honesty expected in academic work. Plagiarism is strictly against the academic policy of Midstate College. Its seriousness requires a measured, forceful response which includes consequences for inappropriate and/or no citation.

In courses containing writing assignments, the College promotes the use of an electronic resource which compares the student's writing against previously submitted papers, journals, periodicals, books, and web pages. Students and instructors can use this service to reduce the incidence of plagiarism. This electronic resource has been found to conform to legal requirements for fair use and student confidentiality. It is able to provide a report to the student indicating the parts of the assignment that match.

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Student Success: The Office of Student Success is available to students seeking tutoring for individual classes or who need assistance with writing assignments. Information is also available on test taking techniques, how to take notes, developing good study skills, etc. Contact Student Success in Room 217 (in person); (309) 692-4092, extension 2170 (phone); studentsuccess@midstate.edu (email).

Instructor: Brandon Blake

Room: 130

Phone: (309) 692-4092

Midstate email: bblake@midstate.edu (This is the preferred method of contact)

Office Hours: 5:00pm – 6:00pm

Policies and Procedures:

- 1. The on-campus course will be taught in a flipped classroom style which means that the bulk of the assignments, labs, etc. are completed during the allotted classroom time.**
- 2. Assignments:** Homework is due by Monday morning at 8 AM if submitted online or is due by 6 PM on Wednesdays. 70% is the highest score that late or make up work can earn without prior arrangement with the instructor. All homework is to be turned in with your name, date, and the name of the assignment at the top. 70% is the highest score that late or make up work can earn without prior arrangement with the instructor.

No makeup work for the 1st 6 weeks will be accepted after the midterm is completed. No makeup work is accepted during finals week. It is the students' responsibility to keep copies of all assignments turned in for a letter grade until the end of the quarter when a final grade has been earned. If a document is lost and no copy is available, the student will not receive credit.

- 3. Exams:** Must be taken on the days scheduled by the instructor. Failure to take an exam on the scheduled date will result in a grade of "F" (0 points). Make-up exams must be taken in the testing center or other location if agreed upon with the instructor. It is the student's obligation to make the appropriate arrangements to have a test administered.
- 4. Competencies: Every competency must be completed or the student will receive a failing grade for the competency AND the course. Changing a competency time will be frowned upon and could negatively impact your grade. Not showing for an assigned competency time will result in an automatic failing grade for the competency. Online students will be required to come to campus for the hands-on competencies (Wks. 2, 6, 12).**
- 5. Participation/Attendance:** Attendance and participation have proven to be key factors in academic success. Flex courses are taught both on-campus and through eLearning. Flex courses offer personalized learning where students can choose each week whether they want to attend on-campus, via eLearning, or both.
On-campus=If a student attends an on-campus course, he or she will be counted as present.
eLearning=To be considered in attendance for an eLearning course, the student must participate each week by submitting substantial, gradable work.
- 6. Academic Dishonesty:** Plagiarism and cheating are serious offenses and may be punished by failure on exam, paper, or project; failure in course; and/or expulsion from the college. For more information refer to the Academic Dishonesty policy in the student handbook.
- 7. Behavior:** Cell phones / pagers are prohibited from use in this course. Also, do NOT

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use email/messenger programs during class. This is not only rude to your instructor, but also distracts you and others around you from the learning experience.

Participation Requirements:

- Reading the class textbook and any other materials assigned by the instructor, including journals, magazines, white papers, and Internet materials. Chapter materials covered during class should be read BEFORE the start of class.
- Participating in oral presentations and classroom discussions
- Participating in lab exercises including online LabSim
- Completing all assignments, competencies, and quizzes/exams

Examination Information:

The quizzes and exams will be a combination of fill-in-the-blank, true/false, multiple-choice and matching questions. A hands-on practicum may be utilized where appropriate. Quizzes will focus mostly on recently covered material, however earlier material will still be included at some points to ensure foundation concepts are fully understood. The midterm will be comprehensive and cover all chapters covered in class to that date. The final will be comprehensive and will cover all chapters covered since the midterm.

Methods of evaluating student performance:

These percentages are approximate values

• Homework Assignments	(100 pts.)	12%
• Competencies	(350 pts.)	43%
• Project	(50 pts.)	6%
• Quizzes/Exams	(200 pts.)	24%
• Labs (LabSim)	<u>(120 pts.)</u>	<u>14%</u>
• Total:	820 pts.	100%

Instructor's Grading Scale: See Midstate grading scale

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TENTATIVE COURSE SCHEDULE

Week	Chapter	Obj	Topic/In Class	Assignment Due
1	1	1	<ul style="list-style-type: none"> • Course Overview • CH 1-Introduction to Computer Repair <ul style="list-style-type: none"> ○ Assignment: Identifying Tower Computer Parts ○ Assignment: Identification of Computer Ports • Register in LabSim <ul style="list-style-type: none"> ○ Complete Section 1: Computing Overview 	Due before Week 2 class: Read Chapter 2 Review Chapter 2 audio PPT lecture & videos Review for Hands-on Competency #1(Ports and Parts)
2	2	2	CH 2-On the Motherboard <ul style="list-style-type: none"> • Hands-On Competency #1 • Assignment: ATX Motherboard Parts Identification • Assignment: Processor Speed, Processor Socket, USB Ports, and IEEE 1394 Ports • Review Questions 1-60 (even only) • LabSim Lab 3.0 System Components (3.1 and 3.3 only) 	Due before Week 3 class: <ul style="list-style-type: none"> • Read Chapter 3 • Review Chapter 3 audio PPT lecture & videos

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3	3	5	CH 3-System Configuration <ul style="list-style-type: none"> • HO#3 Examining System Resources • Review Questions 1-50 (even only) • Ch 3 Internet Discovery • LabSim Lab 3.0 System Components (3.6 and 3.7 only) 	Due before Week 4 class: <ul style="list-style-type: none"> • Read Chapter 4 • Review Chapter 4 audio PPT lecture & videos
4	4	3	CH 4-Disassembly and Power <ul style="list-style-type: none"> • HO#5 Pin-Out Diagramming • CH 4 Internet Discovery • LabSim 2.1 Protection & Safety (1 thru 8) • LabSim 3.2 Power Supplies (1 thru 6) 	Due before Week 5 class: <ul style="list-style-type: none"> • Read Chapter 5 • Review Chapter 5 audio PPT lecture & videos
5	5	1	CH 5-Logical Troubleshooting <ul style="list-style-type: none"> • HO#1 Logical Troubleshooting • CH 5 Review Questions (1-10) • LabSim 2.2 Professionalism (1-6) • LabSim 2.5 Troubleshooting Overview (1-3) 	Due before Week 6 class: <ul style="list-style-type: none"> • Read Chapter 6 • Review Chapter 6 audio PPT lecture & videos
6	6	1	CH 6-Memory Hands-On Competency #2 (includes midterm exam) <ul style="list-style-type: none"> • HO#1 Configuring Memory on Paper-1 • HO#4 Examining Memory Resources • LabSim 3.5 Memory (1-14) 	Due before Week 7 class: <ul style="list-style-type: none"> • Read Chapter 7 • Review Chapter 7 audio PPT lecture & videos

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7	7	1	Storage Devices Final Project Assigned <ul style="list-style-type: none"> • HO#1 Configuring a PATA IDE Hard Drive on Paper • Review Questions 82-84 • LabSim 5.1 Storage Devices (1-5) • LabSim 5.9 Adding Storage (1-5) 	Due before Week 8 class: <ul style="list-style-type: none"> • Read Chapter 8 • Review Chapter 8 audio PPT lecture & videos
8	8	6	Multimedia Devices <ul style="list-style-type: none"> • HO Assignment • Review Questions • LabSim Assignment 	Due before Week 9 class: <ul style="list-style-type: none"> • Read Chapter 9 • Review Chapter 9 audio PPT lecture & videos
9	9	6	Other Peripherals <ul style="list-style-type: none"> • HO Assignment • Review Questions • LabSim Assignment 	Due before Week 10 class: <ul style="list-style-type: none"> • Read Chapter 10 • Review Chapter 10 audio PPT lecture & videos
10	10		Computer Design <ul style="list-style-type: none"> • HO Assignment • Review Questions • LabSim Assignment 	Due before Week 11 class: <ul style="list-style-type: none"> • Read Chapter 11 • Review Chapter 11 audio PPT lecture & videos
10	11	3	Basic Operating Systems <ul style="list-style-type: none"> • HO Assignment • Review Questions • LabSim Assignment 	Due before Week 11 class: <ul style="list-style-type: none"> • Read Chapter 13 • Review Chapter 13 audio PPT lecture & videos
11	13	4	Internet Connectivity <ul style="list-style-type: none"> • HO Assignment • Review Questions • LabSim Assignment 	Due before Week 12 class: <ul style="list-style-type: none"> • Study for Final Exam and Final Competency • Finalize Final Project
12			Final Hands-On Competency #3(includes final exam) Final Project Presentations	

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