CP1920: Computer Hardware and Troubleshooting I
Course Information – Winter 2008

COLLEGE
OF THE
NORTH
ATLANTIC

Contact: Instructor: Mr. Rob Power   Section #: 1
                   Office: Building 10 – Room 271
                   Email: robert.power@cna-qatar.edu.qa
                   Phone: 495-2520

Prerequisite(s):   None

Purpose of the Course:

This course is designed to expose the students to the basic components of a computer system and methods of troubleshooting those components. It will teach the student how to evaluate, install, configure, troubleshoot and specify all basic components such as CPU, Memory, Hard and Floppy Drives. It will also cover such topics as disk defragmentation, busses and expansion slots, disk caching, memory management and removable drives.

Class Location: Building 10, First Floor Room 18 (10-118)

Textbook: *A+ Guide to Managing and Maintaining Your PC*, Andrews
                    ISBN: 1-4188-3557-9

                    Lab Manual for A+ Guide to Managing and Maintaining Your PC, Andrews
                    ISBN: 1-4188-3562-5

Major Topics:

1.0   Basic PC Components
2.0   Troubleshooting, Upgrading and Improving Basic PC Components
3.0   Storage Devices
4.0   Troubleshooting, Upgrading and Improving Storage Devices

Classroom Guidelines:

Attendance: Students are expected to attend all lecture and lab sessions for this course, as scheduled. Students absent for medical reasons must provide documentation from their doctor / hospital upon return to class.

Assignments: Assignments must be submitted on or before the assigned due date. Late assignments CANNOT be accepted.

Missed Tests: Students are expected to attend and write all quizzes / exams for this course. Students missing quizzes / exams must provide medical documentation upon return to class, or a grade of zero (0%) will be assigned. Make-up tests CANNOT be provided. However, students missing quizzes / exams for valid, documented medical reasons, can discuss alternate evaluation arrangements with the instructor (ie: the value of the missed quiz will be added to the value of the next quiz).

Plagiarism: Absolutely no plagiarism, copying or sharing of work allowed. All students who are involved will receive a zero (0%) for the specific work that was copied, and a form will be placed in the student's folders. If you are researching from the Internet or text books, information must be paraphrased or changed into your own words with proper referencing provided.

Evaluation:

Item	Value
Labs	10%
Assignments (5)	20%
Tests (2)	25%
Midterm Exam	15%
Final Exam	30%
TOTAL:	100%

Class Schedule and Instructor Contact Hours:

	Sunday	Monday	Tuesday	Wednesday	Thursday
7:30 AM				CP1920 10-118	CP1280-1 10-217
8:30 AM	CP1280-1 10-217			Office 10-271	CP1280-1 10-217
9:30 AM	CP1920 10-118		CP1920 10-118	CP1280-1 10-217	CP1920 10-118
10:30 AM	CP1920 10-118	Office 10-271	Office 10-271	CP1280-1 10-217	Office 10-271
11:30 AM	Lunch Time	Lunch Time	Meeting Time	Lunch Time	Lunch Time
12:30 PM	Office 10-271	CP1280-2 10-217	Meeting Time	CP1610 10-227	
1:30 PM		CP1280-2 10-217		CP1280-2 10-217	
2:30 PM	CP1610 10-227				CP1280-2 10-217
3:30 PM					CP1280-2 10-217
4:30 PM			CP1610 10-227		

Delivery Schedule, CP1920, Winter 2008:

Week:	Agenda:
Week 1: January 6-10	**Admin** **Registration**
Week 2: January 13-17	**Part 1: Basic PC Components** Introduction • Chapter 1: pages 1-20 Assignment 1 Handed Out Lab #1
Week 3: January 20-24	Startup Process • Chapter 3: pages 77-83
Week 4: January 27-31	Lab #2 Assignment #1 Due (Sunday, January 27th) Assignment #2 Handed Out Begin Motherboard (*Tentative*)
Week 5: February 3-7	**Test #1:** **Sunday, February 3rd, 9:30-11:20am** Motherboard • Chapter 1: pages 21-33 • Chapter 2: pages 57-69 • Chapter 5: pages 167-204
Week 6: February 10-14	Primary Storage Devices (Memory) • Chapter 6: pages 239-251 Types of Software • Chapter 2: pages 41-57 Lab #3
Week 7: February 17-21	**Part II: Troubleshooting, Upgrading and Improving Basic PC Components** Motherboard Installation, Troubleshooting, Upgrades and Replacements • Chapter 5: pages 204-230 Assignment #3 Handed Out Assignment #2 Due (Wednesday, February 20th)
Week 8: February 24-28	Memory Troubleshooting and Upgrades • Chapter 6: pages 251-276 Assignment #3 Due (Sunday, February 24th) Assignment #4 Handed Out Lab #4
Week 9: March 2-6	**Midterm Exam – Sunday, March 2nd** *Computer Component Labeling Competition* (*Tentative*) **Midterm Break (March 6-9)**
Week 10: March 9-13	**Midterm Break (March 6-9)** **Part III: Storage Devices** Secondary Storage Devices • Chapter 7: pages 285-292 • Chapter 8: pages 307-333 Archival Storage Devices • Chapter 11: pages 486-489, 492-493, 500-507 Lab #5

Week 11: March 16-20	**Part IV: Troubleshooting, Upgrading and Improving Storage Devices**
	Floppy Drive Options
	    • Chapter 7: pages 293-301
	Hard Drive Troubleshooting and Upgrades
	    • Chapter 8: pages 333-352
	<mark>Assignment #4 Due (Sunday, March 16th)</mark>
	<mark>Assignment #5 Handed Out</mark>
	<mark>Lab #6</mark>

Week 12: March 23-27	<mark>Assignment #5 Due (Sunday, March 23rd)</mark> Other Storage Devices Chapter 11: pages 489-492
Week 13: March 30-April 3	<mark>**Test #2 – Sunday, March 30th**</mark> <mark>Lab #7</mark>
Week 14: April 6-10	Review **Exams begin (April 8-15)**
Week 15: April 13-17	**Exams** **Admin**

***Please Note: All due Dates are Tentative!**