

**LAGUARDIA COMMUNITY COLLEGE
CITY UNIVERSITY OF NEW YORK
DEPARTMENT OF MATHEMATICS, ENGINEERING, and COMPUTER SCIENCE**

MAC293 Computer Repair and Network Maintenance
4 credits; 5 hours (3 lecture, 2 lab)

This course will provide students with the knowledge needed to diagnose and repair stand-alone and networked personal computers. The student will learn about hardware, including disk drives, mainboards, video boards, network interface cards, and modems. Students will learn how to set up, diagnose, and repair network connections, servers and workstations. Students will work with testing equipment such as oscilloscopes, patch boxes, LAN testers, and wiring tools. General software diagnostic tools will be used. The student should expect to pay for additional materials for this course.

Prerequisite: MAC231 or MAC232 or MAC233 or MAC292

Book:

A+ Guide to Managing and Maintaining Your PC (6th Edition) ISBN:0-619-21758-8

Evaluations:

Projects (2 total).....	20%
Quiz.....	20%
Mid term exam.....	30%
Final exam.....	30%

Week:	Topic
1	Introducing Hardware Introducing Operating Systems
2.	PC Repair Fundamentals Form Factors and Power Supplies
3.	Building your computer
4.	Processors anc Chipsets Motherboards
5	Test 1
6.	Upgrading Memory

Hard Drives

7. Installing and Supporting I/O Devices
Multimedia Devices and Mass Storage
8. RAID installation
9. Mid Term Exam
10. PCs on a Network
PCs on the Internet
11. On-site research
12. Final