

**LAGUARDIA COMMUNITY COLLEGE**  
**CITY UNIVERSITY OF NEW YORK**  
**DEPARTMENT OF MATHEMATICS, ENGINEERING, and COMPUTER SCIENCE**  
MAC289 – Computer technology project lab I (2 CREDITS/2 HOURS)

**Catalog Description:**

This course reinforces the student's concepts of digital circuit-board fabrication for computer and communication devices through the construction of projects. Topics include: lab safety, reading schematic diagrams, PC construction and components soldering. The student will also learn the techniques of troubleshooting his project. The projects will vary. The student should expect to pay for additional materials for this course.

**Prerequisite:** MAC292

**Grading Standards:**

Class Work and project	65%
Final Exam	35%
Total	100%

**Book:**

The project comes with a guide.

**Course Syllabus**

Week 1

- Project selection and overview

Week 2

- Introduction to soldering and basic construction of the project

Week 3

- Guided project construction

Week 4

- Guided project construction

Week 5

- Guided project construction

Week 6

- Guided project construction

Week 6

- Guided project construction

Week 7

- ▪ Guided project construction

Week 8

- Troubleshooting of non-working projects

Week 9

- Troubleshooting of non-working projects

Week 10

- Troubleshooting of non-working projects

Week 11

The project circuitry

Week 12

Advance analysis of the project circuitry

Week 13

Final Exam