

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

**MAC289 – Computer Technology Project Lab**

**2 credits; 2 hours**

**Prerequisites: MAC292**

**Catalog Description:**

This course reinforces the students' concept 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 component soldering. Students will also learn the techniques of troubleshooting their projects. Student should expect to pay for additional materials for this course.

**Textbook:**

This lab comes with a guide.

**Evaluation:**

Class Work	30%
Project	35%
Final Exam	35%
Total	100%

**Academic Integrity:**

This class will be conducted in compliance with LaGuardia Community College's academic integrity policy.

**Attendance:**

The maximum number of unexcused absences allowed is 15% of the total class meetings. Unexcused absences beyond this maximum will result in a grade of WU or F.

**Comments:**

The grading standards listed above and the contents listed in the course outline are both subject to modification by the instructor.

**COURSE OUTLINE**

Week	Topic
1	Project selection and overview
2	Introduction to soldering and basic construction of the project
3	Guided project construction
4	Guided project construction
5	Guided project construction
6	Guided project construction
7	Guided project construction

8	Troubleshooting of non-working projects
9	Troubleshooting of non-working projects
10	Troubleshooting of non-working projects
11	The project circuitry
12	Advance analysis of the project circuitry
13	Final Exam