Physics 37100 Advanced Physics Laboratory I (Fall 2019)

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Class Schedule: Monday, 4-5 PM, lecture MR-410 Laboratory session in Room: MR-422, approx. 3 hour per week

| Day | Assignment | Due | Points |
|-------------|---|-------|-----------|
| 9/5 (Thurs) | Lab #1: Blinking Birthday – get Matlab | 9/9 | 10 |
| 9/9 | Lab #2: Analog Input/Output | 9/15 | 10 |
| | Lab #3: Time-resolved Measurements | 9/22 | 10 |
| 9/16 | Lab #4: Simple Oscilloscope | 10/13 | 10 |
| 9/23 | Discuss project ideas and finalize project title | 10/13 | 2 |
| 10/7 | Lab #5: PID Controller | 10/27 | 10 |
| 10/21 | Create a <i>written</i> 2 milestone plan to finish project by 12/15 | 11/11 | 2 |
| | -including extra parts from \$10 budget | | |
| 10/28 | Prepare project pitch – send <i>slides</i> by 11/3 | 11/3 | 2 |
| 11/4 | 2 min in class oral presentation (project pitch) | 11/4 | 5 |
| 11/11 | Written progress report of Milestone 1 | 11/17 | 2 |
| 11/18 | | | |
| 11/25 | Written progress report of Milestone 2 | 12/1 | 2 |
| 12/2 | Final written project report | 12/16 | 25 |
| 12/9 | Class Evaluations | | |
| 12/16 | 5 min in class oral presentation and demonstration | | 10 |
| | (Final Exam Time 3:30-5:45) | | |
| 12/23 | Absolute Last Day to Turn in Anything | | Total:100 |

General Information

Attendance: Class sessions will focus on discussion of concepts, relevant theory for the experiments. Regular attendance, on-time arrival, and participation in entire class are required. The real work will get done in the lab or home. Approximately 3-hour per week will be needed to complete the assignments.

Grades: Grade will be based on the assignments and reports above. To obtain full credit students must submit the assignment on or before the due date indicated above. Overdue reports will be degraded at rate 10% per week. For example, if you turn in Lab 1 anytime up to 11:59 pm on 9/2 the maximum grade will be 10/10. If you turn it in between 12:00 am on 9/3 and 11:59 pm on 9/9 the maximum grade will be 9/10, etc.

Required electronically submission must be sent to MarkDShattuck@gmail.com. The e-mail subject line "P371 last name and assignment number" **must** be indicated. Include all source files *.ino, *.m, etc., analysis, description, and output in a single PDF, and any pictures or movies as needed.

Academic Integrity and Plagiarism: The CCNY Policy on Academic Integrity will be strictly adhered to. The document entitled, "CUNY Policy on Academic Integrity" is available from the link at the bottom of the CCNY Home Page. Make sure you have read the details regarding plagiarism and cheating, and be clear about the rules that the college follows. Cases where academic integrity is compromised will be prosecuted to the fullest extent according to these rules.