

## Physics 37100 Advanced Physics Laboratory I (Fall 2018)

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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
8/27	<b>Lab #1:</b> Blinking Birthday – get Matlab	9/2	10
9/5 (Wed)	<b>Lab #2:</b> Analog Input/Output	9/9	10
	<b>Lab #3:</b> Time-resolved Measurements	9/16	10
9/17	<b>Lab #4:</b> Simple Oscilloscope	9/30	10
9/24	Discuss project ideas and finalize <b>project title</b>	10/21	2
10/1	<b>Lab #5:</b> PID Controller	10/28	10
10/15	Create a <b>written</b> 2 milestone plan to finish project by 12/9 -including extra parts from \$10 budget	11/11	2
10/22			
10/29	Prepare project pitch – send <b>slides</b> by 11/4	11/4	2
11/5	2 min in class <b>oral presentation</b> (project pitch)	11/5	5
11/12			
11/19	<b>Written</b> progress report of Milestone 1 and 2	12/9	4
11/26			
12/3	Final <b>written</b> project report	12/17	25
12/10			
12/17	5 min in class <b>oral presentation</b> and <b>demonstration</b> (Final Exam Time 3:30pm)		10
<b>12/23</b>	<b>Absolute Last Day to Turn in Anything</b>		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](mailto: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.