

Phys 3313/3214, Advanced Lab  
Laboratory Report Grading Rubric

	Comments	Points	
		Max	Earned
<b>Title</b> <ul style="list-style-type: none"> <li>Identifies experiment adequately and briefly</li> <li>Cites author first, lab partner(s) second, course, and date</li> </ul>		4	
<b>Abstract</b> <ul style="list-style-type: none"> <li>Briefly summarizes the full report concisely and effectively, <math>\leq 100</math> words</li> <li>Reports final result with uncertainty</li> </ul>		5	
<b>Introduction</b> <ul style="list-style-type: none"> <li>Establishes concept of experiment</li> <li>Establishes context of experiment</li> <li>States purpose, general and specific</li> <li>Includes all equations used, defines all variables, motivates or derives the equations</li> </ul>		10	
<b>Experimental Method</b> <ul style="list-style-type: none"> <li>Describes materials &amp; equipment (in paragraphs, not lists)</li> <li>Describes procedures (in paragraphs)</li> <li>Briefly gives enough detail to allow replication of the experiment</li> <li>Uses own words, not a copy of the manual</li> </ul>		10	
<b>Results</b> <ul style="list-style-type: none"> <li>All necessary results reported – Instructor should be able to confirm analysis using the data presented</li> <li>Uses text to describe data, refers to any tables and/or graphs</li> <li>Uses tables and/or graphs appropriately</li> <li>Tables have titles/graphs have captions, appear in order mentioned in text, and are correctly labeled (numbered)</li> </ul>		23	
<b>Analysis, and Discussion</b> <ul style="list-style-type: none"> <li>Correctly shows or summarizes all necessary calculations– instructor should be able to confirm calculations based on what is discussed</li> <li>Discusses scientific content &amp; context of results, and relates them to the objective and/or hypothesis</li> <li>Uses text to describe analysis, refers to any tables and/or graphs</li> <li>Uses tables and/or graphs appropriately</li> <li>Any tables or graphs have titles/captions, are shown in order mentioned in text, and are correctly labeled</li> </ul>		23	
<b>Conclusion (i.e. Summary)</b> <ul style="list-style-type: none"> <li>States whether the purpose was accomplished, and/or hypothesis was supported. Backs this up by referring to results</li> <li>Reports final result with uncertainty</li> <li>Answers any questions posed in the lab manual</li> <li>Addresses any pertinent issues; summarizes discussion, possible sources of error, possible experimental improvements, what has been learned, etc.</li> </ul>		10	
<b>References</b> <ul style="list-style-type: none"> <li>Appropriate references listed</li> <li>Numbered in order referred to in text, in a standard format</li> </ul>		05	
<b>Writing Proficiency and Format</b> <ul style="list-style-type: none"> <li>Uses specified report organization</li> <li>Uses correct grammar, spelling, and punctuation</li> <li>Presents ideas clearly, concisely, and logically</li> </ul>		10	
<b>Overall Grade</b>		100	