

### Lab 1 Report Rubric

	General Expectations	Total Number of Points
<b>Presentation</b>	Report is written in a consistent tense, in complete sentences, with proper grammar, punctuation and spelling. The layout of the document makes the report easily readable. The report acknowledges any help received and cites any external source used in its preparation	10
<b>Units</b>	All quantities that require units are written with SI units.	15
<b>Introduction</b>	The purpose of the lab: what is the lab about and what goals are you trying to accomplish? Summarize, in a few sentences, the relevant physics for this experiment	5
<b>Methods</b>	A brief description of the experiment and its procedures. Do not use bullet points.	10
<b>Data</b>	Use tables and figures to present and summarize your data. Tables must have headers with appropriate units. List each case as shown in the lab manual. Recreate the table on the data sheet	15
<b>Analysis</b>	The analysis is described in words in paragraph style. Sample calculations for each equation used in the analysis as well as calculations for error analysis. Are results consistent with data collected?	30
	<b>Experimentally:</b> Show the calculations used to calculate the magnitude of the balancing force.	
	<b>Graphically:</b> Attach pictures of the graphs you made during lab. Make sure everything is properly labeled and that each graph has a name (there should be three, one for each case).	
	<b>Mathematically:</b> For each case show how you i) broke the forces given into its Cartesian components and ii) how you calculated the magnitude and direction angle of the resultant force.	
<b>Conclusion</b>	Discuss your results: did they reflect your purpose and goals from your introduction? The results from the experimental section might be slightly off from what you calculated mathematically, include why you think this might be so.	10
	Include a numerical discussion of results, including error analysis. Include an explanation of what you think might have led to the error, do not just put 'human error'.	
<b>Raw Data</b>	Raw data sheet is attached to lab report and acknowledges team members.	5
	Note: The data from the raw data sheet must be used in calculations	

No corrections necessary/Excellent	Minimal corrections/Good	Substantial corrections/Average	Too many corrections/Poor	Report is missing/Unsatisfactory
100%-90%	90%-70%	70%-50%	50%-30%	30%-0%