

ENGR XXX Lab Report Evaluation Form

Group/Student Name: _____

	Below Expectations		Marginal		Meet Expectations		Exceed Expectations		Weight	Indicators
	F	C-/D	C	C+/B-	B	B+/A-	A	A+		
Introduction <ul style="list-style-type: none"> Describe background information/previous works Define scope and goals of investigation Describe physical principle or working hypothesis 										3.1
Experimental Design & Data Collection <ul style="list-style-type: none"> Identify and describe important instrument / apparatus / materials Formulate/Apply appropriate procedures to perform experiment and collect data 										3.2
Results and Discussions (Data Analysis & Synthesis) <ul style="list-style-type: none"> Formulate/apply appropriate procedures, tools, and techniques to analyze and process data to reach appropriate conclusions Proper presentation and citation of Figures Proper presentation of sample calculations/derivations Demonstrate accuracy of calculation and error discussions Answer question completely and correctly 										3.3
Assess Results and Conclusions <ul style="list-style-type: none"> Summarize experiment by citing data and source of error, and addressing hypothesis Consider limitations of theory or measurement errors (if applicable). 										3.4
Quality of Visuals and Data Presentation <ul style="list-style-type: none"> Effectiveness of figures, maps, photos, etc. Figures referred to and used in text Quality of engineering drawings Correct captions, titles, source lines 									1	7.2
Quality of Writing <ul style="list-style-type: none"> Format conforms to expectations Document is organized effectively at macro and micro levels Sentences are correct and concise Document has been proofread (misspellings and typos) Appropriate Appendices Given 									1	7.1

Category	Mark
1 - F	34.5
2 - C-/D	54.5
3 - C	61.5
4 - C+/B-	67.5
5 - B	73.5
6 - B+/A-	80
7 - A	87
8 - A+	95

ENGR XXX Lab Report Evaluation Rubric Descriptors

	Below Expectations (Major Errors or lack of Depth; Unacceptable quality)	Marginal (Some significant errors or lack of depth Satisfactory quality)	Meet Expectations (Appropriate depth / few errors Good quality)	Exceed Expectations (Exceptional depth / accuracy Outstanding quality)
	F/D/C-	C/C+/B-	B/B+/A-	A/A+
Introduction	Provided no description of background information/previous works; No scope and goals of investigation Showed no/little physical principle or working hypothesis but with mistake	Provided some description of background information/previous works; Lack of scope and goals of investigation Showed the physical principle or working hypothesis but with mistake	Provided description of background information/previous works; Defined the scope and goals of investigation Described the physical principle or working hypothesis	Provided detailed description of background information/previous works; Defined the specific scope and goals of investigation Fully Described the physical principle or working hypothesis
Experimental Design & Data Collection	Unable to carry out planned activity; Unaware of basic instrument/apparatus necessary for the experiment Cannot perform the labs	Able to carry out planned activity but with lots of support from TA; Aware of basic instrument or apparatus necessary for the experiment	Utilize valid methods Conduct procedures well and with sufficient accuracy	Fully Identify and describe important instrument / apparatus / materials Formulate/Apply appropriate procedures to perform experiment and collect data successfully
Results and Discussions (Data Analysis & Synthesis)	Not able to properly present Figures, sample calculations/derivations No demonstrate accuracy of calculation and error discussions Question were answered incorrectly	Figures were presented but lack of explanations; Sample calculations/derivations were not complete Lack of demonstration of accuracy of calculation and error discussions Question were answered incorrectly	Figures were presented with explanations; Sample calculations/derivations were presented Demonstration of accuracy of calculation and error discussions Question were answered correctly	Formulate/apply appropriate procedures, tools, and techniques to analyze and process data to reach appropriate conclusions Proper presentation and citation of Figures Proper presentation of sample calculations/derivations Demonstrate accuracy of calculation and error discussions Answer question completely and correctly
Assess Results and Conclusions	Misinterprets trends and correlations Provides physically unrealistic explanations Unable to relates physics of the system to results	Performs some basic calculations and plots data and results, but not able to see full picture. Makes little attempt to relate data to theory Interprets some results	Reaches valid conclusions justified by the data Relates physics of the system Uses caution in interpretations	Summarize experiment by citing data and source of error, and addressing hypothesis Consider limitations of theory or measurement errors (if applicable).
Quality of Visuals and Data Presentation	Diagrams, sketches, and tables are used infrequently. Many additional visualizations are required. Some visualizations may appear unprofessional. The visualizations present do not significantly add to the quality or	Diagrams, sketches, and tables are used occasionally. Additional visualizations would be beneficial. Some visualizations may not appear professionally produced. They generally add to the quality and impact of the document.	Diagrams, sketches, and tables are used frequently and appropriately. There may be instances where additional visualizations would be beneficial. Most are professionally produced. They add to the quality and	Diagrams, sketches, and tables are used extensively and appropriately. All are professionally produced. They significantly add to the quality and impact of the document.

	impact of the document.		impact of the document.	
Quality of Writing	The report is somewhat difficult to read and poorly constructed. The tone may be unprofessional and/or inappropriate in multiple places. Sections do not smoothly flow from one to the next. There are regular typographical, grammatical, and formatting errors.	The report is somewhat difficult to read or poorly constructed in places. The tone may be unprofessional and/or inappropriate in isolated places. Sections generally flow smoothly from one to the next. There are many typographical, grammatical, and formatting errors.	The report is clear, concise, and generally well-constructed. The tone is generally professional and appropriate, and sections flow smoothly from one to the next. There are multiple typographical, grammatical, or minor formatting errors.	The report is very clear, concise, and well-constructed. The tone is highly professional and appropriate, and sections flow seamlessly from one to the next. There are very few typographical, grammatical, or minor formatting errors.