## Course

Student or Team $\qquad$ Exercise Title $\qquad$

| $\begin{gathered} \text { Ref } \\ \# \\ \hline \end{gathered}$ | Dimension Maps to Learning Outcome | 1: Poor | 2: Average | 3: Excellent | Score |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Abstract/Summary $\mathbf{3 a}$ | Several major aspects of the experiment are missing, student displays a lack of understanding about how to write an abstract | Abstract misses some major aspects of carrying out the experiment or the results | Abstract references most of the major aspects of the experiment, some minor details are missing |  |
| 2 | Introduction $3 \mathrm{a}$ | Very little background information provided or information is incorrect | Some introductory information, but still missing some major points | Introduction complete and well-written; provides necessary background principles for the experiment |  |
| 3 | Experimental procedure $2 \mathrm{c}, 3 \mathrm{a}$ | Missing several important experimental details or not written in paragraph format | Written in paragraph format, still missing some important experimental details | Well-written in paragraph format, most experimental details are covered |  |
| 4 | Results: data, figures, graphs, tables, etc. 2c, 3a | Figures, graphs, tables contain errors or are poorly constructed, have missing titles, captions or numbers, units missing or incorrect, etc. | Most figures, graphs, tables OK, some still missing some important or required features | Figures, graphs, tables are correctly drawn, are numbered and contain titles/captions. |  |
| 5 | Discussion and Analysis 2c | Very incomplete or incorrect interpretation of trends and comparison of data indicating a lack of understanding of results | Some of the results have been correctly interpreted and discussed; partial understanding is still evident | Important trends and data comparisons have been interpreted correctly and discussed, good understanding of results is conveyed |  |
| 6 | Design of Experiment 2c | Lab objectives not met. Inappropriate procedure designed. | Most lab objectives met. Incomplete procedure designed. | Objectives of the lab met, appropriate procedures designed. |  |
| 7 | Conduct Experiments 2c | Setup, implementation and outcomes not successfully accomplished. Meaningful data not produced. | Some error in setup, implementation or outcomes. <br> Successful collection of data, but validity is suspect. | Setup, implementation and outcomes successfully accomplished with production of meaningful data |  |


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| :---: | :---: | :---: | :---: | :---: | :---: |
| 8 | Computer-based Methods 2d | Inappropriate choice and use of tools. Fundamental errors in computation and calculation. | Some tools inappropriately chosen or incorrectly utilized. <br> Some errors in computation and calculation. | To choose and correctly utilize appropriate computer-based tools. <br> Computation and calculation yield relevant results. |  |
| 9 | Knowledge of Electric Circuits 1c | Incorrect design, analysis or construction of electric circuits used in lab. | Some errors in design, analysis or construction of electric circuits used in lab. | Correct design, analysis or construction of electric circuits used in lab. |  |
| 10 | Knowledge of Logic Design 1c | Incorrect design, analysis or programming of logic design used in lab. | Some errors in design, analysis or programming of logic design used in lab. | Correct design, analysis or programming of logic design used in lab. |  |
| 11 | Conclusions 3a | Conclusions missing or missing the important points | Conclusions regarding major points are drawn, but some are misstated, or could be better stated. | All important conclusions have been clearly made, student shows good understanding. |  |
| 12 | Spelling, grammar, sentence structure <br> 3a | Frequent grammar and/or spelling errors, writing style is rough and immature | Few grammar/spelling errors, generally readable with some rough spots in writing style | All grammar/spelling correct and very wellwritten, readable style. |  |
| 13 | Appearance and formatting 3a | Sections out of order, too much handwritten copy, sloppy formatting | Sections in order, contains the minimum allowable amount of handwritten copy, formatting is good, but could still be improved | All sections in order, well-formatted, very readable. |  |
| 14 | Multi-disciplinary <br> Participation <br> 3c | No discrete roles | Discrete roles were somewhat defined and followed | Each member had a specific role that involved multi-disciplinary participation. |  |

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[^0]:    Adapted from Balik, MSE Dept, NSCU Spring 2003 Developed by Spurlin, Fahmy, Alderman Fall 2004 8/10/04 Revised 3/24/11, 6/17/11

