DRAFT Rubric for Mech 309 lab reports 7/18/16 by Dave Kim

Definitions:

Audience – Mechanical engineering peers, engineers, and professionals in engineering firms. Genre – Lab report

Modalities – text, tables, plots, pictures, etc.

1. Rhetorical Knowledge

| Emerging | | Developing | | Mastering | | |
|--|-----------------------------|---|-------------------------|--|--|--|
| 1 | 2 | 3 | 4 | 5 | 6 | |
| The writer shows little awareness of the context | | g | | The writer analyzes the context and audience | | |
| or audience, and the rep | | audience supports a generally successful report. | | and uses that analysis to comprehend and/or | | |
| most places. The writer's | | Overall, the writer make | s choices that are | create the report. In approaching the task and | | |
| appropriate to the assign | nment or may be limited | appropriate to the assign | nment, but the writer's | purpose, the writer mak | purpose, the writer makes choices that are | |
| or oversimplified respon | | understanding and application of the lab report | | appropriate to the assignment and the lab report | | |
| The writer demonstrates | s little or no control over | genre may seem incomplete or inconsistent. The | | genre. In developing the response to the | | |
| the various modalities that are attempted in the | | writer shows a general awareness of the | | assignment, the writer employs the methods | | |
| report, and seems only n | ninimally aware of the | | | commonly used for communication in | | |
| demands of mechanical engineering engaged in | | generally successful use | of the field's | mechanical engineering. The writer consider | | |
| the assignment. Overall, the writer shows little | | characteristic methods. Attention to task, task, purpose, con | | task, purpose, context, a | nd audience in setting a | |
| awareness of the audience's needs, and | | purpose, context, and audience are generally style an | | style and usage appropri | iate to the assignment. | |
| treatment of the task and purpose are basic or | | appropriate, with some lapses (e.g., the writer | | | | |
| inadequate. | | may invoke the wrong audience, or provide | | | | |
| | | irrelevant information, e | etc). | | | |

2. Organization

| Emerging | | <u>Developing</u> | | Mastering | |
|--|---|---|--|---|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| The report's structure may be incomplete, inappropriate, or missing. The writer does not establish objective (or a central hypothesis) or may provide one that is oversimplified. Contextual information is missing, inconsistent with the objective (or hypothesis), or incomplete. The report frequently wanders away from the central idea, and the arrangement of evidence may seem random or purposeless. The writer does not seem to be in control of the report. | | structure for the report oversimplified or inaded Overall, the objective (or to the report, but in place wander away from that appropriately arranges it though in places the arrange superficial. The writer's | rt begins, the writer r a hypothesis) that acts rt. The writer forecasts a that may be quately described. r hypothesis) is central es the writer may central idea. The writer deas, data, and analysis, angement may be control over the shape | The writer provides a purclearly articulates the exthe report begins, the writer foundational background central idea; clearly state report; establishes the wapproach; and engages the way that addresses the a The writer's formulation hypothesis) is consistent developing analysis. The not only the writer's developing analysis. | periment's purpose. As riter provides d and context for that es the objective of the riter's perspective or he subject matter in a ppropriate audience. of the objective (or ely at the center of the organization supports elopment of ideas, |
| | | of the report may be inco | | | |

3. Evidence (results of experiments and/or simulations, data tables, plots, diagrams, etc.)

| Emerging | | Developing | | Mastering | |
|--|---|--|---|---|---|
| 1 | 2 | 3 4 | | 5 | 6 |
| The writer relies on information that is not relevant to the report or that is narrow or trivial. Evidence is missing, mislabeled, or is not clearly connected to the experiment's central hypothesis. Evidence may not sufficiently support or clarify the writer's claims. | | Most of the time, the wri appropriate evidence to analysis. In places, the co some of the evidence and hypothesis) being explor missing. The evidence so substance or variety. | support and clarify the onnections between d the objective (or red may be weak or | The writer clearly estable between the objective (of evidence in the report. Estable, and portrayed for reports include statistical visual (including data tall etc.), multimodal, or obstilly explore the objective analyses. Evidence is presuppropriately to the target. | r hypothesis) and the vidence is accurate, fairly. As appropriate, analytical, numerical, ples, plots, pictures, ervational evidence to be and supporting esented and interpreted |

4. Critical Thinking

| Emerging | | Developing | | Mastering | |
|---|---|---|--|---|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| The writer oversimplifies ideas. Analysis, evaluation, or interpretations may be missing or underdeveloped. The writer may provide a shallow or basic analysis of the topic. The report provides little guidance to the reader, or the writer seems unaware of the audience. If there is a conclusion, it may be irrelevant to the analysis or provide little or no closure. The writer's analysis is limited, or the writer may "let the data do the talking." | | The writer analyzes, syn evaluates ideas and texts to the task that addresse knowledge (theory or hy an analysis of the topic a perspective. Overall, the the reader's need to und the development of the aprovides closure by sum but may draw limited or conclusions from the analysis. | s to develop an approach is the existing rpothesis) and supports and the writer's writer accommodates erstand the topic and analysis. The writer marizing the analysis, inconsistent | The writer synthesizes, a evaluates significant and information, and data. The existing knowledge (theoproviding an in-depth and the complexity of the expensive synthesis of the expensive synthesis. The meaningful conclusions a experiment as a whole, in closure and bring the analysis. | analyzes, interprets, and well-chosen ideas, ne writer addresses the pry or hypothesis), alysis consistent with periment. The writer erstand the riment and its central e writer draws and reflects on the n ways that provide |

5. Knowledge of Conventions

| Emerging | | Developing | | Mastering | |
|---|--|---|--|---|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| Choices of style, diction, inconsistent with or inap report. The writer's styli random. Errors are frequent detract from meaning or from adequately underst meaning. The writer omi sources, and may incons figures, and other visual | ppropriate for a lab stic choices may seem lent and seriously prevent the reader landing the writer's ts some citations for istently label tables, | The writer's sentences a appropriate to the topic, random or uncontrolled are generally appropriat Errors in mechanics and minor, but may be suffic distract a reader. The wrare sometimes effective. may vary in ways that detreatment of the task. So uniformly included, but Figures, tables, and othe | but in cases may seem . Style, tone, and voice .e., with some lapses. grammar are generally iently frequent to riter's diction and syntax Voice and perspective etract from the writer's urce citations are may be incomplete. | The writer employs sent appropriate language to clear throughout the rep tone, and voice that are a report. Errors in mechan minor and infrequent. The syntax and diction approgenre. Throughout the reand perspective remain other and with the task. I material are clear and costyle is appropriate to m | ence structures and ensure that ideas are ort. Writer uses style, appropriate for a lab aics and grammar are ne report employs a apriate to the lab report eport, the writer's voice consistent with each Citations of source nsistent, and citation |
| | | generally well formatted and labeled. generally well formatted and labeled. illustrations are correctly and use | | Figures, tables, and | |

6. Holistic: Overall, impressionistic evaluation of the lab report as a whole.

| Emerging | | Developing | | Mastering | |
|----------|--|------------|---|-----------|--|
| 1 2 | | 3 | 4 | 5 6 | |
| | | | | | |

OK. We're not rating on this, but I left it here for future reference. Including something like this in a course rubric would allow you to try assigning some reflective writing, or to have students revise their work before turning it in, etc. It's also a good dimension for portfolio-based grading.

Use of Composing Processes

| Emerging | | Developing | | Mastering | |
|--|---|---|--|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| The report reveals little use of strategic planning or of composing processes. The writer demonstrates little or no control over the various modalities that are attempted in the report, and seems only minimally aware of the demands of mechanical engineering engaged in the assignment. The report seems like a first or early draft/version, rather than something that has benefited from extended attention. | | The report displays the estrategies or composing conceptualize, develop, a The writer plans the use design the report and de over design of the docummay be insecure in place general awareness of the engineering, and makes use of the field's character report reveals some evic other kinds of extended | processes to and finalize the report. of various modalities to velop ideas, but controlment or development as. The writer shows a demands of mechanical a generally successful eristic processes. The lence of revision or | The report shows evidence of extended attention. The writer used multiple strategies or composing processes to conceptualize, develop, and finalize the report. The report employs the kinds of modalities that indicate a deliberative process of document design and incorporation of material, or the writer adapts composing processes to a variety of modalities. The report displays evidence of good document design decisions, and careful revision. In developing the response to the assignment, the writer employs the methods commonly used for communication | |