

## EML-4551 Midterm I Report Rubric

<b>Topic</b>
<b>Problem statement and project scope</b> <ul style="list-style-type: none"><li>• Clearly explain why doing the work</li><li>• Lay out the key technical question(s)</li><li>• Goal and objectives</li></ul>
<b>Design and Analysis</b> <ul style="list-style-type: none"><li>• Clearly specify design requirements – customer needs and product specifications</li></ul>
<ul style="list-style-type: none"><li>• Do concepts show innovative/creative ideas on<ul style="list-style-type: none"><li>○ Mechanical systems</li><li>○ Thermal systems</li><li>○ Electrical systems</li></ul></li></ul>
<ul style="list-style-type: none"><li>• In choosing ‘optimal’ concept, was the selection matrix and criteria suitable?</li><li>• Was the analysis appropriate? Realistic trade-off ? Any design margin?</li></ul>
<ul style="list-style-type: none"><li>• Use of CAD to illustrate design concepts</li><li>• Are detailed drawings and assembly drawing appropriate for this stage</li></ul>
<b>Scheduling and Resource Allocation</b> <ul style="list-style-type: none"><li>• Work breakdown structure and use of scheduling software</li><li>• Resource allocation according to the team dynamics</li></ul>
<b>Results</b> <ul style="list-style-type: none"><li>• Uncertainty, risks (if any)</li><li>• Comparison of experimental results to analysis (if any)</li><li>• Validation of design / key characteristics (if any)</li></ul>
<b>Conclusion</b> <p>Not a simple summary, but what was concluded about the final design/process? Does the product /process meet customer needs?</p>
Overall report format, organization, and grammar