

## ENSC 405W Grading Rubric for Design Specification

Criteria	Details	Marks
<b>Introduction/Background</b>	Introduces basic purpose of the project.	<b>/05%</b>
<b>Content</b>	Document explains the design specifications with appropriate justification for the design approach chosen. Includes descriptions of the physics (or chemistry, biology, geology, meteorology, etc.) underlying the choices.	<b>/20%</b>
<b>Technical Correctness</b>	Ideas presented represent design specifications that are expected to be used for construction. Specifications are presented using tables, graphs, and figures where possible (rather than over-reliance upon text). Equations and graphs are used to back up/illustrate the science/engineering underlying the design.	<b>/25%</b>
<b>Process Details</b>	Specification distinguishes between design details for the alpha phase of development (i.e., proof-of-concept and appearance prototypes) and, if details can be known at this point, later versions of the product (e.g. engineering prototype, production prototype, and mass-produced). While you should end up with a complete plan for your proof-of-concept and appearance prototypes, depending upon the nature of your project there might be uncertainty at this point about the later stages of the project in which case you can discuss those uncertainties and how the earlier prototypes can resolve them. Numbering of design specs matches up with numbering for requirements specs (if sensible to do so).	<b>/15%</b>
<b>Supporting Test Plans Appendix</b>	Provides supporting test plans to address testing of the design details of subsystems and components. (See, for example, supporting test plans in <a href="https://en.m.wikipedia.org/wiki/Test_plan">https://en.m.wikipedia.org/wiki/Test_plan</a> ) A short Acceptance Test Plan should have been provided in your requirements specification document.	<b>/10%</b>
<b>User Interface and Appearance Appendix</b>	Summarizes appearance and requirements for the User Interface (based upon the lectures and the concepts outlined in the Donald Norman textbook – see “Useful links” in Pages on Canvas).	<b>Graded Separately</b>
<b>Conclusion/References</b>	Summarizes design. Includes references for information sources.	<b>/05%</b>
<b>Presentation/Organization</b>	Document looks like a professional specification. Ideas follow logically.	<b>/05%</b>
<b>Format/Correctness/Style</b>	Includes letter of transmittal, title page, abstract, table of contents, list(s) of figures and tables, glossary, and references. Pages are numbered, figures and tables are introduced, headings are numbered, etc. References and citations are properly formatted. Correct spelling, grammar, and punctuation. Style is clear, concise, and coherent.	<b>/15%</b>