MARE 405 / MASE 319 Naval Architecture
Final Report Requirements Check List

- Cover Page (NO graphics, binders, or plastic covers)
  - Title
  - Name
  - Date of submission
  - Partners

- Table of Contents
  - Indicate appropriate page numbers and sections
  - Show distinction between headings and subheadings

- Overall Purpose
  - Purpose of report, proposed concepts, equations, and laws

- Design
  - Full-Scale Vessel Description and Performance Data
    - Dimensions
    - Power requirements
    - Speed
  - Scale-Model Vessel Description and Performance Data
    - Dimensions
    - Power requirements
    - Speed

- Simpson’s Rule (with SPE data), Incline Experiment, Large Angles of Stability, Longitudinal Stability, Effective Horsepower
  - Purpose of “lab”, proposed concepts, equations, and laws
  - Given Information and Assumptions
  - Procedures for specific tests, experiments, and computer modeling
  - Results – highlight and thoroughly describe results of analyses
    - Line drawings and concomitant table of offsets
    - Application of Simpson’s Rule for \( A_W \) and \( I_T \)
    - Hydrostatic Properties (e.g., \( A_W, \Delta, \nabla, GM_T, I_T, I_L, MT1, TPI, LCF \))
    - Coefficients of form
    - Application of “Incline Experiment” and concomitant ASME/USCG/CFR requirements
  - Statical Stability Curve
  - Longitudinal stability and trim calculations
  - Application of “Tow Tank” testing and EHP (\( P_E \))

- Identify “Industry Standards” applied

- Conclusions
  - Describe observations derived from the data analyses and possible causes for deviation from expected values, impact of assumptions, and achievement of your purpose

- Project Conclusion

- References
  - List textbooks or reference material, the appropriate page(s) that are not included in the appendices

- Appendices
  - Label appendices label consecutively starting from A
  - Detailed and concise calculations with all work are shown here
  - Contains materials relevant to the report and only included if mentioned in the report
  - “Hand” calculations should be performed on engineering graph paper
  - Include Writing Center comments
Proper footnotes/endnotes required throughout

- Formatting
  - Double spaced
  - Include headings and subheadings
  - Page numbers centered on bottom of page
  - Label tables, figures, charts, and graphs

- Organization

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Or

Purpose
A. Simpson’s Rule
B. Incline Test
C. Large Angles of Stability
D. Longitudinal Stability
E. Effective Horsepower

Procedure
A. Simpson’s Rule
B. Etc.
Assumptions
Etc.