COSC/ECE 402 - Engineering Design
Capstone Design Project Guidance

A. COSC/ECE 402 – Detailed Design Report Rubric

Team: _____   Reviewer: _____

Customer: _____

Criteria or Requirement	Comments	Target Word Count	Points
Front Matter Title Page – student name, project title, course and number, name of report, date submitted, and student signature. Executive Summary – problem statement and description of top five ECs Concise and on its own page; ahead of ToC/LoF/LoT, no page #s Table of Contents, List of Figures, and List of Tables		250	/2
Problem Definition & Background Section revised and updated		250	/1
Requirements Specification Section revised and updated		250	/1
Technical Approach Section revised and updated		500	/5
Design Concepts, Evaluation & Selection Section revised and updated		500	/5
Embodiment Design Includes product architecture: -Spatial layout including visual aids -Discussion of interaction between modules -Inputs, outputs for each module Includes configuration design: -Component selection—specifying part numbers and justification for selection -Drawings, material and process selection and justification manufactured parts -Detailed process flow for algorithms, including specification of data format & processing environment. -Best practices considered		1000	/25
Test Plan Description of how you plan to evaluate performance for each EC (Test plan matrices should be included in Appendices)		500	/18
Project Deliverables Section revised and updated		500	/1
Project Management Section revised and updated, (Gantt chart included as an appendix)		500	/5
Budget Section revised and updated		500	/1
References Section revised and updated		250	/1
Appendices Quad Chart, Business Matrix Canvas, revised and updated Engineering Drawings for parts to be Manufactured (if relevant) Test Plan Matrices—required for all projects, Draft Patent Application Gantt Chart—required for all projects		1000	/10
Formatting Figure/table formatting (centered, numbered, captioned, referenced) Justification and pagination Clean and professional appearance			/5
Style Strong, logical narrative / Correct voice (third person) Appropriate tense – consistent with narrative for each section Grammar and spelling; evidence of proofreading			/10
Overall		6000	/100