SYS 501 – Capstone Paper Outline

**Theater Battle Management Core System (TBMCS)**

Introduction to Topic – (~ 1 page)

* High level overview of TBMCS.
* Contractor requirements (Lockheed Martin), generic timeline, creation factors, etc. --- Pg. iv – v, 1995 – 2000 LMCO V1.01.
* Operational need that needed to be fulfilled.

Portions of SE Lifecycle Discussed in Case Study, Handled? – (2 – 2 ½ pages)

* The case study discusses the different parts of the Systems Engineering Life Cycle, Learning Principles (LPs or Lessons Learned), and mentions things that went right throughout this process.
* DoD Acquisition process and goals, continual improvement.
* DoD success is driven by... (se Pg. 1)

\* Pg. 1 – DoD process management and implementation.

\* Pg. 2 – DAU picture and goals that should be adhered to and followed.

\* Pg. 5 & 6 – Concept Domain areas and Friedman-Sage matrix for responsibilities.

\* Pg. 8 – Background information and high level overview of system.

What did they do right? How and why? – (2 – 2 ½ pages)

* Parse Section into 5 Learning Principles and discuss intricacies.
* Introduce the particular section with a few sentences describing the primary goals and lessons learned here.
* <Note 3>

What did they do wrong? In what way? – (2 – 2 ½ pages)

* Parse Section into 5 Learning Principles and discuss intricacies.

\* See all red highlights for the different sections of the Capstone Report.

If they had to do it all over again, how could they do it better? – (3 – 3 ½ pages)

* Parse Section into 5 Learning Principles and discuss intricacies.

\* Pg. vi – Relaxation of requirements should drive…

\* Pg. 15 – Sufficient research with regards to legacy systems… intelligent discussions with Customer community.

\* Pg. 17 – Establish priorities with regards to which options are more important, and opportunities which can be exercised.

Conclusion: Applicability to Other Areas and Systems Engr in General – (2 – 2 ½

* <Note 1>
* <Note 2>
* <Note 3>

\* Pg. vi – TBMCS applicability and lessons learned to SW intensive programs.

\* Pg. vi – Lessons learned from TBMCS provided for 4 successful releases in 3 years.