ENGR 402: SPRING Syllabus

Week#

1  Course introduction and overview
   Development Methodology Review
   Team organizational planning

2  Component fabrication and testing
   Reading assignment: Harvard Case Study - IDEO Product Development

3  Component fabrication and testing
   Reading assignment:
   Text (Ulrich & Eppinger) – Chapter 12 – Prototyping

4  Component fabrication and testing
   Reading assignment: Harvard Case Study – Apple PowerBook

Note: All documentation from the first semester will be revised as work develops and specifics are established and redesigns are made.

5  Project Status Review #1
   Presentation to class and faculty by the entire team emphasizing the component fabrication experience and its relationship to the overall project design and objectives.

6  System Assembly and Testing
   Assembly Instructions, User Manual and Maintenance Manual

7  System Assembly and Testing
   Reading assignment: Text – Chapter 10 – Industrial Design

8  *** Spring Break ***

9  System Assembly and Testing
   Reading assignment: Text – Chapter 11 – Design for Manufacturing

10 System Assembly and Testing
    Reading assignment: Text – Chapter 15 – Product Development Economics

11 Project Status Review #2
    Presentation to class and faculty by the entire team will emphasize the system assembly experience and its relationship to the overall
project design and objectives.

12 Design, fabrication and assembly revisions
   **Marketing Brochure** – One page that would show and describe the product or service in terms of function, benefits and features. The copy should be written for the typical prospect who would be interested in the product. Use good graphics and renderings.

13 Design, fabrication and assembly revisions

14 Revised system assembly and testing

15 Revised system assembly and testing

16 Final Product Demonstration
   Presentation to class, faculty, and industry sponsors by the entire team emphasizing a demonstration of the complete prototype product. Also, all items of documentation will be on a table display.