Course Outline:

- Week 1 (Aug 30) - Class 01 Notes
  - Syllabus and Course Outline
  - Introduction to Engineering Design (Chapter 1)
  - Introduction to Students and Projects

- Guest speaker: Dr. Mahesh Shenai, MD
  - Engineering Design and Business Principles

- P1 assigned (5-minute presentation and “monopoly” game)
- HW1 assigned (Pick a project and choose your team)

- Week 2 (Sep 6) - Class 02 Notes
  - Wallet Design Activity
  - P1 due – in class exercise

- Week 3 (Sep 13) - Class 03 Notes
  - HW1 due – project summary, team members, and information sheet
  - HW2 assigned (Wordpress team website)

- Week 4 (Sep 20) - Class 04 Notes
  - The Design Process (Chapters 2 and 10)
  - HW2 due
  - HW3 assigned (Literature review)

- Week 5 (Sep 27) - Class 05 Notes
  - Defining the Client’s Design Problem (Chapter 3)
  - Functions and Requirements (Chapter 4)
  - HW3 due
  - P2 assigned (10-minute mockup/project presentation)

- Week 6 (Oct 4) - Class 06 Notes
  - Midterm preparation / Chapter Questions
  - P2 due - mockup/project presentation
  - HW4 assigned (Team charter, WBS, LRC, Gantt Chart)

- Week 7 (Oct 11) - Class 07 Notes
  - MIDTERM (Chapters 1, 2, 3, 4, and 10)
- Week 8 (Oct 18) - Class 08 Notes
  - Midterm correction
  - Generating and Evaluating Design Alternatives (Chapter 5)
  - HW4 due
  - HW5 assigned (Alternatives)

- Week 9 (Oct 25) - Class 09 Notes
  - Design Modeling, Analysis, and Optimization (Chapter 6)
  - HW5 due
  - HW6 assigned (Modeling and analysis)

- Week 10 (Nov 1) - Class 10 Notes
  - Building Models and Prototypes (Chapter 7)
  - HW6 due
  - P3 assigned (2nd 10-minute mockup/project presentation)

- Week 11 (Nov 8) - Class 11 Notes
  - Engineering Drawings (Chapter 8)
  - P3 due – mockup/project presentation
  - HW7 assigned (Drawings)

- Week 12 (Nov 15) - Class 12 Notes
  - Oral Reports (Chapter 9)
  - HW7 due
  - P4 assigned (Project presentation)

- Week 13 (Nov 22)
  - Thanksgiving – NO CLASS

- Week 14 (Nov 29) - Class 13 Notes
  - Final presentation – preparation
  - Final exam – preparation / chapter questions

- Week 15 (Dec 6) - Class 14 Notes
  - P4 due - PRESENTATIONS (including panel reviewers)

- Week 16 (Dec 13)
  - FINAL EXAM – Friday, December 13 from 11:30am to 2:15pm
  - (Chapters 5, 6, 7, 8, and 9)