Textbooks:


1. **Introduction to Human Factors and experimental design** (Sept 12)
   - *Product evaluation assignment:* Pick 5 products whose user interface needs improvement. For each design identify potential use errors. Rate the usability, user satisfaction and level of system trust associated with each design.

2. **Task analysis** (Sept 19)
   - *Interface evaluation- presentation*

3. **Information processing** (Sept 26)
   - Assignment:
     - *Identify and review 5 web sites associated with Human Factor/Ergonomic design principles, standards and/or resources. Discuss the relevance of each site to improving product design, performance, safety and/or quality of life.*
     - *Summary chapters 1 – 5 (HFE)*

4. **Control and display design** (Oct 3)
   - Assignment:
     - Preliminary selection of redesign project and topic
   - *Summary chapters 6 - 8*

5. **Usability testing** (Oct 10)
   - Assignment:
     - *Summary chapters 9- 11*
     - *Hand in paper topic description*

6. **Anthropometry and workplace design** (Oct 17)
   - *Summary chapters 12 – 14*

7. **Product design and quality control** (Oct 24)
   - *Summary chapters 15 – 16*
8. **Paper & Project presentation** (Oct 31)
   - Assignment
     - *A 3 – 5 minute presentation of your paper and group project*
     - *Summary chapters 17 – 19*

9. **User interface design** (Nov 14)
   - Assignment
     - *Short group presentation – principles of UI design*
     - Take home final handed out

10. **Group processing learning and motivation** (Nov 21)

11. **Forensics - Human Factors and the law** (Nov 28)
    - *Annotated bibliography due*

12. **Selection, training and documentation** (Dec 05)
    - *Take home final due*

13. **Group project presentation** (Dec 12)

**Course Requirements**
The following will determine your grade:
1. Class participation (I) and assignments (G)
2. Book chapter summaries – no more than 1.5 pages a chapter (I)
   - Main points
   - What did you find of particular interest
   - A specific design application
   - An area or question in need of additional investigation
3. 8 -10-page annotated bibliography of a Human Factors topic of your choice. (I)
   - Introduction to the area
   - A review of 8 - 10 articles, books
   - Summary of findings
4. Take home final – *no more than 5 page* - Due Dec 5
5. Product redesign (G). The purpose of this project is to identify and correct an existing human factor problem (in a product of your choice). Due Dec 12.
   - This project will include the following phases:
     a. Problem identification
     b. User requirement definition (use of multiple task analysis methodologies)
     c. Alternative design solutions: relevant research, text and human factor data
     d. Usability objectives and test plan
     e. **Must reference specific recommendations from DMM book**