**ME 481 Schedule**

**Fall 2017**

Schedule is subject to change as circumstances during the course of the semester demand.

**Bold items denote workshops or reports that MUST be turned in for credit.**

| Week | Monday | | Wednesday | | Weekly Tasks/Milestones |
|---|---|---|---|---|---|
| 1 | 8/21 | Welcome & Introduction | 8/23 | Design Process Overview | **-Computer Lab Sign-up/Responsibilities,**<br>**-Assumption of Risk and Release** |
| 2 | 8/28 | Project Management (WBS; GANTT charts; reviews - SRR, PDR, CDR, TRR; risk management; etc.) | 8/30 | Requirements Definition and Management | -Freeze teams and Schedule Weekly Meeting Times<br>-Literature Search<br>-Request for Proposal (RFP) posted |
| 3 | 9/4 | NO CLASS - Labor Day | 9/6 | Engineering Communication (Writing primarily, but a bit on oral as well) | -Project Statements/Functional Requirements |
| 4 | 9/11 | Safety Training (Moore), and Intro to Ethics | 9/13 | Library resources, literature survey, finding reports and patents, search strategies, engineering database | -Literature Search |
| 5 | 9/18 | Design Process Examples - Brain Storming - Decision Making | 9/20 | Solidworks lecture | **-Project Propsal Report**<br>-Strategies<br>-Group Check |
| 6 | 9/25 | System Engineering (process, documentation, configuration control, etc.) | 9/27 | FEA lecture | **-Solid Modeling Workshop**<br>-Concepts |
| 7 | 10/2 | Ethics | 10/4 | Makai Ocean Engineering:<br>Practical Lessons Learned from the Design and Testing of a Novel Autonomous Underwater Vehicle<br>Duke Hartman, Kevin Shimotsu | -Concept Selection<br>-Modules |
| 8 | 10/9 | Material Selection | 10/11 | FUNdaMENTALs of Design | -MCM<br>-Proof of Concept |
| 9 | 10/16 | Team Dynamics-Economics | 10/18 | Career Day - No Lecture | -Analysis and Modeling<br>-Website/Wiki and Design Notebook Checks |
| 10 | 10/23 | Patents and Intellectual Property (IP)<br>Martin Hsia, Patent Attorney | 10/25 | | **-Preliminary Design Report (PDR)**<br>-Group Check |
| 11 | 10/30 | Selling your Idea | 11/1 | FEA Examples in ANSYS | -Bench level testing<br>-Design Freeze<br>-Website/Wiki and Design Notebook Checks |
| 12 | 11/6 | FEA Workshop | 11/8 | Failure Mode & Effect Analysis (FMEA) | -Detailing and Final Material Selection |
| 13 | 11/13 | | 11/15 | | **-FEA Workshop**<br>-Website/Wiki and Design Notebook Checks |
| 14 | 11/20 | | 11/22 | | **-Sales pitch and Website/Wiki**<br>-Final Report Draft<br>-Panic --- Then finish loose ends! |
| 15 | 11/27 | | 11/29 | | -Revise/iterate<br>-Website/Wiki and Design Notebook Checks |
| 16 | 12/4 | | 12/6 | | **-Comprehensive Design Report (CDR)**<br>**-Design Notebooks**<br>-Peer Evaluations |