**ME 481 Schedule**  
**Spring 2020**

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

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

<table>
<thead>
<tr>
<th>Week</th>
<th><strong>Tuesday</strong></th>
<th><strong>Thursday</strong></th>
<th><strong>Weekly Tasks/Milestones</strong></th>
</tr>
</thead>
</table>
| 1    | 1/14 Welcome & Introduction | 1/16 Design Process Overview | -Finalize projects  
|      |             | 1/18 Project Shopping | -Initial team selections  
| 2    | 1/21 -Requirements Definition and Management (Library resources, literature survey, finding reports and patents, search strategies, engineering database) | 1/23 Safety Training (Moore) Attendance Mandatory | -Assumption of Risk  
|      |             | 1/25 Project Shopping | -Design Lab Access  
|      |             | 1/26 Background information and Literature Search | -Freeze teams and Schedule Weekly Meeting Times  
| 3    | 1/28 Engineering Communication (Writing primarily, but a bit on oral as well) | 2/29 Concepting and Solid Modeling | -Background Research  
|      |             | 2/30 Fundamentals | -Objective Statements  
|      |             | 2/31 Strategies | -Functional Requirements  
| 4    | 2/24 Project Management (WBS; GANTT charts; reviews - SRR, PDR, CDR, TRR; risk management; etc.) | 2/26 Concepting and Solid Modeling | -Background Research  
|      |             | 2/28 Project Management | -Order-of-magnitude analysis  
|      |             | 2/30 -Strategies | -Report draft  
| 5    | 2/11 Concepting and Solid Modeling | 2/13 Fundamentals | -Background Research  
|      |             | 2/15 Strategies | -Concepts  
|      |             | 2/17 Group Check | -Group Check  
| 6    | 2/18 Concept Selection | 2/20 All of class time used for SolidWorks check-offs | -Project Proposal Report  
| 7    | 2/25 System's Engineering | 2/27 Concept Selection | -Solid Modeling Workshop  
|      |             | 2/29 -Concepts | -Modules  
| 8    | 3/3 System's Engineering | 3/5 Project Management - Risk | -Preliminary Design Report (PDR)  
|      |             | 3/7 MCM | -Analysis and Modeling  
|      |             | 3/9 -Website | -Website  
| 9    | 3/10 NO CLASS - Spring Recess | 3/12 NO CLASS - Spring Recess | Beach day(s)? Alas likely not for engineering students  
|      |             | 3/14 Patents and Intellectual Property (IP) by Rafael Gacel-Sinclair, Technology Licensing Associate, Office of Technology Transfer | -Final Report Draft  
|      |             | 3/16 Ethics - Case Studies | -Detailed design  
| 10   | 3/17 FEA Workshop | 3/18 Ethics - The basics and ASME code & Evaluation Theories | -Bench level testing  
|      |             | 3/19 Selling your Idea | -Group Check  
| 11   | 4/1 Material Selection | 4/2 Concept Design Freeze | -Concept Design Freeze  
|      |             | 4/4 Detailed design | -Detailed design  
| 12   | 4/7 Failure Mode & Effect Analysis (FMEA) | 4/9 Ethics - Case Studies | -Website/Wiki and Design Notebook Checks  
|      |             | 4/11 -Website/Wiki and Design Notebook Checks | -FEA Workshop Due  
| 13   | 4/14 Sales pitches during lecture for all sections | 4/16 Sales pitches during lecture for all sections | -Sales pitch and Website/Wiki  
|      |             | 4/18 Sales pitches during lecture for all sections | -Final Report Draft  
|      |             | 4/20 -Panic --- Then finish loose ends! | -Panic --- Then finish loose ends!  
| 14   | 4/21 Engineering Economics | 4/23 Ethics - Case Studies | -Revise/iterate  
|      |             | 4/25 -Website/Wiki and Design Notebook Checks | -Website/Wiki and Design Notebook Checks  
| 15   | 5/5 -Design Notebooks | 5/7 -Comprehensive Design Report (CDR) | -Comprehensive Design Report (CDR)  
|      |             | 5/9 Final Website Check | -Final Website Check  
| 16   | 5/12 Peer Evaluations | 5/14 Peer Evaluations | -Peer Evaluations  
| 17   | 5/19 | 5/21 |