

ME170 Class Schedule  
Fall 2019

<b>Week #</b>	<b>Dates</b>	<b>Labs</b>	<b>Lecture Topics</b>
		1009 MEL (EWS computer lab)	2079 Natural History Bldg.
1	Monday Aug 26 to Friday Aug 30	NO LABS first week of class	INTRODUCTION to ME170 [Tuesday] Introduction to Human Centered Design (HCD) [Thursday]
2	Monday Sep 2 (Labor Day) to Friday Sep 6	<b>Lab #1</b> - Introduction to Human Centered Design (Monday's sections don't meet due to Labor day holiday)	MechSE Design Classes - Common Design Approach Overview of PTC Creo CAD Design for Manufacture (DFM)
3	Monday Sept 9 to Friday Sept 13	<b>Lab #2</b> - Team activities to identify opportunities Frameworks to represent information collected (Lab#1 for Monday sections)	Design for Manufacture (DFM) CAD integrated cost analysis (aPriori)
4	Monday Sep 16 to Friday Sept 20	<b>Lab #3</b> - Teams present their frameworks (Lab#2 for Monday sections)	2D/3D Freehand Sketching - Prof. William Bullock (Tuesday and Thursday Lectures this week)
5	Monday Sept 23 to Friday Sept 27	<b>Lab #4</b> - 3D sketching exercises with Professor Bullock (Chair of Industrial Design) (Lab#3 for Monday sections)	Design Project: Ideation & Brainstorming Case Studies - Product Design CAD/DFM and Design to Cost (cont.)
6	Monday Sep 30 to Friday Oct 4	<b>Lab #5</b> - Creo solid modeling - 2D sketch to 3D part modeling (Lab#4 for Monday sections)	Design Project: Sketch ideas for Term Design Project CAD/DFM and Design to Cost (cont.)
7	Monday Oct 7 to Friday Oct 11	<b>Lab #6</b> - Creo Extrude and revolve (Lab#5 for Monday sections)	Design Project: Develop PDS Product Design Specification (PDS) and Concept Selection (Pugh matrix)
8	Monday Oct 14 to Friday Oct 18	<b>Lab #7</b> - Creo cont. plus 3D printer training (Lab#6 for Monday sections)	Design Project: Complete Concept Selection matrix Engineering Drawings - ISO/ANSI standards
9	Monday Oct 21 to Friday Oct 25	<b>Lab #8</b> - Creo - Blend and Sweep features (Lab#7 for Monday sections)	Design Project: Start CAD modeling Engineering Drawings - ISO/ANSI standards
10	Monday Oct 28 to Friday Nov 1	<b>Lab #9</b> - Creo - Creative Part Modeling (Lab#8 for Monday sections)	Design Project: CAD modeling Professional and Ethical responsibilities as an Engineer Engineering Drawings - ISO/ANSI Tolerances
11	Monday Nov 4 to Friday Nov 8	<b>Lab #10</b> - Creo - Patterns and model modifications (Lab#9 for Monday sections)	Design Project: CAD modeling Engineering Drawings - Worse-case tolerancing
12	Monday Nov 11 to Friday Nov 15	<b>Lab #11</b> - Creo - Detail Drawings (Lab#10 for Monday sections)	Design Project: CAD modeling Engineering Drawing - GD&T and DFM
13	Monday Nov 18 to Friday Nov 22	<b>Lab #12</b> - Creo - Assemblies and Mechanisms & Project <b>Preliminary</b> Presentations (Lab#11 for Monday sections)	Design Project: Develop Engineering Drawings DFM and Design to Cost - Machining, Bar&Tube, etc
14	Monday Nov 25 to Friday Nov 29	THANKSGIVING	THANKSGIVING
15	Monday Dec 1 to Friday Dec 6	Project <b>Final</b> Presentations (Lab#12 for Monday sections)	No Tuesday/Thursday 8am lecture classes (focus on Final Design Presentations)
16	Monday Dec 9 to Friday Dec 13	(Project <b>Final</b> Presentations for Monday sections) Final Project reports due Friday 11 pm to TA (via mechSE server)	Tuesday 8am class - Presentations by 3 Best Teams No class Thursday (Reading Day) P.S. No Final Exam - Design Project Reports instead