

Date	Weekday		Lecture		Lab Section A		Lab Section B
0	19-Jan	Mon			TA Training		TA Training
	20-Jan	Tues					
	21-Jan	Wed	Introduction	welcome, generalities on course, organization			
	22-Jan	Thu					
1	23-Jan	Fri	Design Thinking	Brain storming & Morph charts	Lab: Shop/CAD Training		Lab: Shop/CAD Training
	26-Jan	Mon	Engineering Design Process & Concept Generation	Dieter Ch 1, Ch 6			
	27-Jan	Tues					
	28-Jan	Wed	Shafts & Components	Shigley's Ch 7			
	29-Jan	Thu					
2	30-Jan	Fri	Reuse/Collection & Kinematics	Frank Moon	Lab: Continue Shop/CAD Training	LAMP/CAD	Lab: Continue Shop/CAD Training.
	2-Feb	Mon	Product development process	Dieter Ch 2			Get project #1 team assignments
	3-Feb	Tues					
	4-Feb	Wed	Water Pump Project	Fluid dynamics & dynamics of pumps			
	5-Feb	Thu					
3	6-Feb	Fri	Tolerancing 1 (Voelcker)		Lab: Shop/CAD Training. Get team assignments		Lab: Shop/CAD Training. Get team assignments
	9-Feb	Mon	Tolerancing 2 (Voelcker)				
	10-Feb	Tues					
	11-Feb	Wed	Screws, fasteners, & non-permanent joints			Water	Open Design
	12-Feb	Thu			Lab Brainstorming and preparation for Water PDR HW. Meet team and brainstorm product plan		Lab: Brainstorming and preparation for Open Design HW: Meet team and brainstorm product plan
4	13-Feb	Fri	Toy Design	Adam Craft (former Designer for Hasbro, Dragon Innovations)		1	1
	16-Feb	Mon			No lab section for Monday and Tuesday due to February Break		No lab section for Monday and Tuesday due to February Break
	17-Feb	Tues					
	18-Feb	Wed	Quality functional development			2	2
	19-Feb	Thu			LAB: Preliminary design review (PDR) presentation. CAD project due. Upload CAD report to CMS before section begins.		
5	20-Feb	Fri	Mechanical springs		LAB: Preliminary design review (PDR) presentation. CAD project due. Upload CAD report to CMS before section begins. First draft of project report due. Upload to CMS before section begins		Preliminary design review (PDR) presentation. CAD project due. Upload CAD report to CMS before section begins. First draft of project report due. Upload to CMS before section begins
	23-Feb	Mon	Team Planning & Scheduling	Dieter Ch 4			
	24-Feb	Tues					
	25-Feb	Wed	Sketching	Prof. Louge		3	3
	26-Feb	Thu			LAB: Critical design review (CDR) presentation. Start prototype fabrication. Lamp due in section. Place sticker with your NetID.		
6	27-Feb	Fri	Contact Bearings & Lubrication	Shigley's Ch 11 & 12	Upload Lamp report to CMS before section begins		Critical design review (CDR) presentation. Start prototype fabrication. Lamp due in section. Place sticker with your NetID. Upload Lamp report to CMS before section begins
	2-Mar	Mon	Embodiment Design	Dieter Ch 8	Second iteration of project report due. Upload to CMS before section begins		Second iteration of project report due. Upload to CMS before section begins
	3-Mar	Tues				4	4
	4-Mar	Wed	Ideo Visit				
	5-Mar	Thu			Material requisitions and prototype fabrication requests due to TA.Finalize prototype fabrication		Material requisitions and prototype fabrication requests due to TA.Finalize prototype fabrication
7	6-Mar	Fri	Ideo Visit		Third iteration of project report due. Upload to CMS before section begins		Third iteration of project report due. Upload to CMS before section begins
	9-Mar	Mon	Ideo Visit				OD: Test prototype. 5-min product demonstration in section.
	10-Mar	Tues					
	11-Mar	Wed	Gears 1	Shigley's Ch 13 & 14		5	5
	12-Mar	Thu			Material requisitions and prototype fabrication requests due to TA. Fourth iteration of project report due. Upload to CMS before section begins		
8	13-Mar	Fri	Detail Design	Dieter Ch 9	Fourth iteration of project report due. Upload to CMS before section begins		OD: Final presentation and demonstration. Final OD project report on CMS before section begins. Upload team assessment form for OD team
	16-Mar	Mon	Gears 2	Shigley's Ch 14 & 15	TESTING DUE		Get Water pump team assignments
	17-Mar	Tues					
	18-Mar	Wed	Materials Selection & Design with Materials	Dieter Ch 11 & 12		6	water pump
	19-Mar	Thu					1
9	20-Mar	Fri	Clutches, Brakes, Couplings, and Flywheels	Shigley's Chapter 16	Final project #1 report on CMS before section begins. Get project #2 team assignments		Lab Brainstorming and preparation for Water PDR HW: Meet team and brainstorm product plan
	23-Mar	Mon	Design for Manufacturing	Dieter Ch 13	Upload team assessment form for your first project		
	24-Mar	Tues					
	25-Mar	Wed	Flexible Mechanical Elements	Shigley's Ch 17		open design	2
10	26-Mar	Thu			Lab: Brainstorming and preparation for Open Design HW. Meet team and brainstorm product plan	1	LAB: Preliminary design review (PDR) presentation. First draft of project report due. Upload to CMS before section begins
	27-Mar	Fri	Risk, Reliability, & Safety	Dieter Ch 14			
	30-Mar	Mon					
	31-Mar	Tues					
	1-Apr	Wed			Spring Break		Spring Break
	2-Apr	Thu					
	3-Apr	Fri					
10	6-Apr	Mon	Quality, Robust Design	Dieter Ch 15 - Pareto fronts	(See week 10 above)	1	2
	7-Apr	Tues					(See week 10 above)
	8-Apr	Wed	Costing	Dieter Ch 16			3
	9-Apr	Thu				2	
11	10-Apr	Fri	Legal issues in product development	Dieter Ch 17	Preliminary design review (PDR) presentation. First draft of project report due. Upload to CMS before section begins		LAB: Critical design review (CDR) presentation. Start prototype fabrication. Second iteration of project report due. Upload to CMS before section begins
	13-Apr	Mon	Design Automation	Hod Lipson			
	14-Apr	Tues					
	15-Apr	Wed	TBD			3	4
	16-Apr	Thu			Critical design review (CDR) presentation. Start prototype fabrication. Second iteration of project report due. Upload to CMS before section begins		Material requisitions and prototype fabrication requests due to TA.Finalize prototype fabrication
12	17-Apr	Fri	TBD				Third iteration of project report due. Upload to CMS before section begins
	20-Apr	Mon	TBD				
	21-Apr	Tues					
	22-Apr	Wed	TBD			4	5
	23-Apr	Thu			Material requisitions and prototype fabrication requests due to TA.Finalize prototype fabrication		Material requisitions and prototype fabrication requests due to TA. Fourth iteration of project report due. Upload to CMS before section begins
13	24-Apr	Fri	TBD		Third iteration of project report due. Upload to CMS before section begins. OD: Test prototype. 5-min product demonstration in section.		TESTING DUE
	27-Apr	Mon	TBD				
	28-Apr	Tues					
	29-Apr	Wed	TBD			5	6
	30-Apr	Thu					
14	1-May	Fri	TBD		OD: Final presentation and demonstration.		Final presentation and demonstration.
	4-May	Mon	TBD				
	5-May	Tues					
15	6-May	Wed	Last day of Class		No Wednesday lab sections. Final project #2 due on CMS. Upload team assessment form for your second project		No Wednesday lab sections. Final project #2 due on CMS. Upload team assessment form for your second project