MCEN 4047-002 Measurements 2 Spring M, W 3:00pm-4:50pm

Instructor: Wei Tan (wtan@colorado.edu; 303-492-0239)

Jose RodriguezLopez [Jose.RodriguezLopez@colorado.edu], Amanda Makowiecki [amma4291@colorado.edu] TA:

Date	Group A	Group B	Group C	ASSIGNMENT:
1/12/2015	Course Introduction (DLC 1B70)			Stats Review Workshop (in class)
1/14/2015	Stat	istics Review (DLC 11	Stats Review Workshop (in class)	
1/19/2015	Martin Luther King, jr.	Holiday (campus close		
1/21/2015	Lab 1: L	Off	Off	
1/26/2015	Lab 1: L	Off	Off	
1/28/2015	Lab 1: D+P	Lab 1: L	Off	
2/2/2015	Lab 1: D+P	Lab 1: L	Off	
2/4/2015	Lab 1: D+P	Lab 1: D+P	Lab 1: L	
2/9/2015	Lab 1: Oral Report	Lab 1: D+P	Lab 1: L	
2/11/2015	Lab 3: Research	Lab 1: D+P	Lab 1: D+P	
2/16/2015	Lab 3: Research	Lab 1: Oral Report	Lab 1: D+P	HW due for Group A
2/18/2015	Lab 2: L	Lab 3: Research	Lab 1: D+P	
2/23/2015	Lab 2: L	Lab 3: Research	Lab 1: Oral Report	
	Lab 3: Proposal Planning	Lab 2: L	Lab 3: Research	HW due for Group B
1 3/2/2015	Lab 3: Prelim Proposal Due	Lab 2: L	Lab 3: Research	
3/4/2015	Lab 2: D+P	Lab 3: Proposal Plann	Lab 2: L	HW due for Group C
3/9/2015	Lab 2: D+P	Lab 3: Prelim Proposal Due	Lab 2: L	
3/11/2015	Lab 2: Oral Report	Lab 2: D+P	Lab 3: Proposal Planning	
3/16/2015	Lab 3: P+C+P	Lab 2: D+P	Lab 3: Prelim Proposal Due	
3/18/2015	Lab 3: P+C+P	Lab 2: Oral Report	Lab 2: D+P	
	Spring Break			
3/25/2015	campus closed			
3/30/2015	Lab 3: P+C+P	Lab 3: P+C+P	Lab 2: D+P	
4/1/2015	Lab 3: P+C+P	Lab 3: P+C+P	Lab 2: Oral Report	
4/6/2015	Lab 3: Progress	Lab 3: P+C+P	Lab 3: P+C+P	
4/8/2015	Lab 3: P+C+P	Lab 3: P+C+P	Lab 3: P+C+P	
		Lab 3: Progress	Lab 3: P+C+P	
4/15/2015	Lab 3: Poster Due	Lab 3: P+C+P	Lab 3: P+C+P	
4/20/2015	Off	Lab 3: P+C+P	Lab 3: Progress Meeting	
4/22/2015	Off	Lab 3: Poster Due	Lab 3: P+C+P	
4/27/2015	Off	Off	Lab 3: P+C+P	
4/29/2015	Off	Off	Lab 3: Poster Due	
5/4/2013	Off	Off	Off	

PURPLE BOX INDICATES TEAMS MEET WITH INSTRUCTOR FOR LAB3

L: in ITLL Lab with hardware

D+P: Data analysis & Preperation time for presentations

Oral Report: Present powerpoint to instructor, TA and other teams in your group summarizing lab

+ Tan will lecture for 30 minutes on 2-factor ANOVA

Lab 3 Research: Investigation and preparation time for Lab 3 Proposal

Proposal Due: Meet with instructor and TA to discuss proposed experiment

P+C+P: Prepare for and Conduct Lab 3 experiment; Prepare poster presentation

Lab 3 Progress Report: Update the Preliminary Proposal with more detail, planned stats

Lab 3 Poster: Oral presentation using a poster

Reimbursement: Turn in Receipts (1 form/team) to the instructor

Divide class into: 3 groups: A, B, C

4 teams per group: 1, 2, 3, 4

4 students per team

LAB#	TEAM 1	TEAM 2	TEAM 3	TEAM 4	Statistical Analysis
1	TENSION - BIKE SPOKES	TORSION - BOLTS	RECHARGEABLE BATTERY LIFE	FRACTURE - GLASS SLIDE	One factor ANOVA
2	RECHARGEABLE BATTERY LIFE	FRACTURE - GLASS SLIDE	TORSION - BOLTS	TENSION - BIKE SPOKES	Two factor ANOVA
3		Two/Multiple factor ANOVA			

	Group A						
Team 1							
Team 2							
Team 3							
Team 4							
Group B							
Team 1							
Team 2							
Team 3							
Team 4							
Group C							
Team 1							
Team 2							
Team 3							
Team 4							