

MAE 3810 - Experimental Methods Laboratory Fall 2016

Week	Lectures	Laboratory
Aug 23-26	Introduction	beginning of classes, no labs
Aug 29-Sep 2	Background, Lab 1	Lab 1: electrical measurements
Sep 5-9	Uncertainty Background, Lab 2	Lab 1 continued
Sep 12-16	Hypotheses Hypothesis testing: thermal measurements	Lab 2: thermal measurements
Sep 19-23	Background Lab 3 No Lecture on 10/23	Lab 2 continued
Sep 26 – 30	Background for lab 3 No Lecture	Lab 3: displacement measurements
Oct 3-7	No lecture on Monday Background for Lab 3	No lab (reading days)
Oct 10-14	Design of Experiment Background for lab 4	Lab 3 continued
Oct 17-21	TBD TBD	Lab 4: air flow measurement
Oct 24-28	Uncertainty analysis for integrals, etc. Fan data analysis	Lab 4 continued
Oct 31–Nov 4	Background for lab 5 Analysis of beam data	Lab 5: vibration of a beam, accelerometers
Nov 7-11	TBD TBD	Lab 5 continued
Nov 14-18	Background for Lab 6 No lecture	Lab 6: Motor torque, power and efficiency
Nov 21-25	No Lecture	No lab (Thanksgiving)
Nov 28- Dec2	Analysis of power data	Lab 6 continued
		(end of classes)