

Schedule of Experiments – MAE 419 Heat Transfer Lab

Unit HT11C Lab Exercises

Date		Group I	Group II
Jan	12	D	–
	19	–	–
	26	–	D
Feb	2	–	E & F
	9	E & F	–
	16	–	–
	23	–	–

Exercise D: Determination of Thermal Conductivity (Constant of Proportionality)

Exercise E: Relationship of Temperature Gradient to Cross-Sectional Area

Exercise F: Effect of Contact Resistance on Thermal Conduction

Unit HT14C Lab Exercises

Date		Group I	Group II
Mar	2	C	–
	9	Spring	Recess
	16	–	C
	23	–	–
	30	A/B	–
Apr	6	–	A/B
	13	–	–

Exercise A/B: Combined Heat Transfer by Radiation and Natural Convection from a Horizontal Cylinder

Exercise C: Combined Heat Transfer by Radiation and Forced Convection from a Horizontal Cylinder

Unit HT33 Lab Exercises

Date		Group I	Group II
Apr	20	–	D
	27	D	–

Exercise D: Overall Heat Transfer Coefficient for a Shell and Tube Heat Exchanger