

TFES Lab (ME EN 4650)

Convection over Flat Plate Lab: Grade Sheet*

Student Name:

Lab Section:

	Possible	Score
Plots and Tables:		
1a. Plot of T_s versus x' (data + theory + corrected theory)	8	
1b. Plot of h_x versus x' (data + theory)	6	
1c. Plot of Nu_x versus x' (data + theory)	6	
1d. Table of Nu_L , h_L , q comparing theory and measurements	6	

Figure/Table Captions: 2 pts per caption	8	
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Short-Answer Questions:		
2a. Percent difference between theory and data for Nu_x , h_x , T_s	2	
2b. Percent difference between theory and data for Nu_L , h_L , q	2	
2c. Percent contribution from radiation heat transfer	2	
2d. Reynolds number of the boundary layer flow	2	

Matlab Code	8	
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Total: 50

* see the posted Handout for details regarding the specific requirements for each part