

TFES Lab (ME EN 4650)
Cooling Tower Lab: Grade Sheet*

Student Name:

Lab Section:

	Possible	Score
Figures:		
1a. Plot water and wet bulb temperatures versus cooling tower height for middle flow rate	2	
1b. Plot cooling tower efficiency versus water inlet flow rate	4	
1c. Plot specific humidity versus cooling tower height for the 3 flow rates	4	
1d. Plot dry bulb temperature versus cooling tower height for the 3 flow rates	4	
1e. Plot ratio of water flow rate (outlet/inlet) versus inlet water temp	4	
1f. Plot heat transfer rates versus inlet water temp	4	

Figure Captions: 2 pts per figure	12	
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Short-Answer Questions:		
2a. Describe what happens to the air moving through the tower	2	
2b. Percentage of water evaporated	2	
2c. Makeup water flow rate	2	
2d. Cooling tower efficiency	2	

Matlab Code: Must include adequate comments for full credit	8	
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TOTAL: 50

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