ME 435 – Thermodynamics for Non ME's -

Prerequisites: Math 211 and Phys 111

Text: Sonntag, et al – *Introduction to Engineering Thermodynamics*, J. Wiley, 2000.

ISBN: 0471129550 **Florio 8/2005**

Week		Chapter(s)	Pages	Material	Problems
1		1,2	1--27	Introduction, Concepts	2.16, 40, 44
				& Definitions	
2*		3	32--51	Properties of Pure	3.8, 24, 51,66
				Substances	
3*		4	57--74	Work & Heat	4.9, 37, 61
	Test # 1				
4		5	80--103	1st Law	5.6, 17, 40, 64, 69, 88
5 / 6*		6	112--138	Control Vol Anal.	6.18, 23, 49, 63
7		10	253-264	Gas Mixtures	10.56,60,63
8		7	148-168	2nd Law	7.1, 34, 44, 65
9/10*		8,9	174-227	Entropy	8.26, 42, 65
					9.19, 30
	Test #2				
11--12*		11	269-311	Power and Refriger-	11.1, 11, 15
				ation systems	11.34, 47, 52
					11.61, 66, 67
	Test #3				
13--14		12	329-346	Intro. To Heat Transfer	12.6, 12, 18, 56
			358-364		
		Final Exam			

Course Grading Information. – ME 435

a. Tests – 15% ; Any missed test will be recorded as a grade of zero.

b. *In lieu of collecting homework, a hw based short quiz every other week - 15%, No Make-up.
Any "Homework" specifically due is due at the beginning of class and in the format specified.

c. Final Exam - 30 %

d. Class participation - 10%.

e. The NJIT Honor Code and Professional Conduct Code will be strictly enforced

Assignment Sheet also available at: ***www-ec.njit.edu/~florio/FLORIO.htm***