

EES 405 Sustainable Energy Analysis Spring 2010 Instructor: Fred Loxsom

Office: Science Center 258

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Text. *Residential Energy* by John Krigger and Chris Dorsi, 4th Edition, Published by Saturn Resource Management, 2004 (\$35)

Course Description. This course uses computer simulation and data analysis tools to predict and assess the performance of conventional buildings, high performance buildings, passive solar buildings, and renewable energy systems.

Outline

Week of	Topic	Assignment Due Date
Residential Simulations		
January 25	Introduction	January 31
February 1	Windows	February 7
February 8	Building Performance	February 14
February 15	Building Upgrade	February 21
February 22	Passive Solar Heating	February 28
March 1	Super Insulated Building	March 7
March 8	Hot Climate Building	March 14
March 15	Other Passive Buildings	March 21
March 22	<i>Spring Break</i>	
Renewable System Simulation		
March 29	Solar Hot Water	April 4
April 5	Solar PV Stand Alone	April 11
April 12	Wind Power	April 18
April 19	Biomass	April 25
April 26	Cogeneration	May 2
May 3	Electric Vehicle	May 9
May 10	Term Paper Outline	May 13
	Term Paper	May 21

Grading

Assignments -- 50%

Discussions -- 25%

Term Paper -- 25%

Term Paper. We will define the term paper at mid-term.

Discussions. Weekly online discussions are a required part of this course.

Cheating and Plagiarism. The following material is taken from the “Statement on Campus Rights and Responsibilities” which is found on page 67 of the ECSU Student Handbook

A student using other than approved materials when taking a test or who gives or receives information during an examination is guilty of cheating.

Plagiarism is presenting the work of others as one’s own. The “work of others” includes any work bought or borrowed from another student as well as work copied from a book, magazine, newspaper, or other medium.

Complicity in another’s act of plagiarism is itself an act of plagiarism. These acts are considered academic violations and are covered by the Statement on Campus Rights and Responsibilities.

Discovery of cheating or plagiarism could lead to the maximum sanction of course failure and expulsion from school.