

# EES 306 Sustainable Energy Applications

(Sustainable Power Resources)

Spring 2009

Online

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**Texts:** *Tackling Climate Change in the US* by American Solar Energy Society, Charles F. Kutscher, Editor, January 2007 [Available for purchase or as a free download on the ASES (American Solar Energy Society) site.]

*Scientific American: Earth 3.0, Volume 18, Number 5.* Available at newsstands for \$5.95.

**Future Course Name and Catalog Description:** *Sustainable Power Resources.* Study of the options that large-scale electric power and transportation systems may use to address fossil fuel depletion, global climate change, and other environmental impacts. Electric power options including energy conservation, increased efficiency, combined heat and power, distributed generation, alternative fossil fuels, carbon capture and storage, nuclear power, wind power, solar power, biomass, hydroelectricity, geothermal energy, tidal power, wind power, and ocean thermal power are addressed. Transportation options including biofuels, electric vehicles, and fuel cell vehicles will also be addressed.

## Grading:

Mid-Term Exam -- 20%

Final Exam -- 20%

Project -- 10%

Assignments & Worksheets – 40%

Discussion -- 10%

**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.

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**Schedule**

All due dates and exam dates are absolute and refer to 11:59 PM on that date.

February 2	Complete <i>Projections</i> module
February 9	Complete <i>Electric Power</i> module
February 16	Complete <i>Resource</i> module
February 23	Complete <i>Sustainability</i> module
March 2	Complete <i>Clean Coal</i> module
March 9	Complete <i>Nuclear Power</i> module
March 16	Complete <i>Mid-Term</i> Exam
March 23	Complete <i>Solar</i> module
March 23 - 27	Spring Recess
April 12	Easter
April 20	Complete <i>Wind</i> module
April 27	Complete <i>Water</i> module
May 4	Complete <i>Biomass</i> module
May 11	Complete <i>Transportation</i> module
May 18	Complete <i>Final</i> Exam Complete <i>Project</i>