

Franklin & Marshall College - Physics and Astronomy Department
 Foundations 111V: Energy Issues in Science and Society
 F. Crawford
 Spring 2009 Course Schedule

Dates	Topics	Reading
Tue Jan 20	Overview; The Earth as an Energy System	Ch. 1
Thu Jan 22	Energy Use and Consumption in Industrialized Societies	Ch. 2
Tue Jan 27	Energy Use and Consumption in Industrialized Societies	Ch. 2
Thu Jan 29	Energy Use and Consumption in Industrialized Societies	Ch. 2
Tue Feb 3	Quantitative Basics of Energy and Related Concepts	Ch. 3,4
Thu Feb 5	Quantitative Basics of Energy and Related Concepts	Ch. 3,4
Tue Feb 10	Quantitative Basics of Energy and Related Concepts	Ch. 3,4
Thu Feb 12	Quantitative Basics of Energy and Related Concepts	Ch. 3,4
Tue Feb 17	Quantitative Basics of Energy and Related Concepts	Ch. 3,4
Thu Feb 19	<i>Library research presentation and workshop (in the library classroom)</i>	<i>none</i>
Tue Feb 24	Fossil Fuels and their Environmental Impacts	Ch. 5,6
Thu Feb 26	Fossil Fuels and their Environmental Impacts	Ch. 5,6
Tue Mar 3	<i>Writing Center presentation and workshop (in our classroom)</i>	<i>none</i>
Thu Mar 5	Fossil Fuels and their Environmental Impacts; Nuclear Energy	Ch. 5,6,7
Tue Mar 10	Alternative Energies: Nuclear	Ch. 7
Thu Mar 12	Alternative Energies: Nuclear	Ch. 7
Tue Mar 17	<i>Spring Break - no class</i>	<i>none</i>
Thu Mar 19	<i>Spring Break - no class</i>	<i>none</i>
Tue Mar 24	Alternative Energies: Geothermal and Tidal	Ch. 8
Thu Mar 26	Alternative Energies: Solar	Ch. 9
Tue Mar 31	Midterm Exam	none
Thu Apr 2	Alternative Energies: Solar	Ch. 9
Tue Apr 7	Alternative Energies: Hydro, Wind, Biofuels	Ch. 10
Thu Apr 9	Alternative Energies: Hydrogen	Ch. 11
Tue Apr 14	Climate Change and the Connection to Earth as a System	Ch. 12,13
Thu Apr 16	Climate Change and the Connection to Earth as a System	Ch. 12,13
Tue Apr 21	Climate Change: Trends and Models	Ch. 14
Thu Apr 23	Climate Change: Projections and Possible Impacts	Ch. 15
Tue Apr 28	Climate Change: Projections and Possible Impacts	Ch. 15
Thu Apr 30	Climate Change: Future Prospects and Connections to Energy; Wrap Up	Ch. 16

The listed readings are from *Energy, Environment, and Climate* by Richard Wolfson. Supplemental readings are posted as links from the course web site.

We will have a research presentation and workshop by the Library staff on **Tue Feb 17** during class time. On this day we will meet in the library classroom on the 2nd floor of the Shadek Fackenthal Library.

We will have a Writing Center presentation and workshop on **Tue Mar 3** in our classroom.

We will have an in-class midterm exam on **Tue Mar 31**. There is no final exam.