## Syllabus

### Jan. 9
Chapter 1: Introduction to Physics 670, Part II  
Video Race to Save the Planet: The Environmental Revolution  
Chapter 2: Electromagnetic Radiation – Radiant Energy I

### Jan. 16
Chapter 3: Electromagnetic Waves – Radiant Energy II  
Video Empire of the Air: The Men Who Made Radio  
Chapter 4: Transfer of Thermal Energy

### Jan. 23
Chapter 5: Thermal Energy, the Microscopic Picture  
Video Earth In the Hot Seat  
Chapter 6: Entropy and the Laws of Thermodynamics

### Jan. 29
Chapter 7: Applications of the Laws of Thermodynamics  
Video Do We Really Want to Live This Way? / Renewable Power  
Chapter 8: Chemical Energy

### Feb. 5
Chapter 9: Mass and Energy  
**MIDTERM 1** covering periods 1-7  
Chapter 10: Ionizing Radiation I

### Feb. 12
Chapter 11: Ionizing Radiation II and Fundamental Particles  
Video The Mighty Atom / Nova: Suicide Mission to Chernobyl  
Chapter 12: Nuclear Reactions

### Feb. 19
Chapter 13: Astrophysics  
Video Origins: Back to the Beginning  
Chapter 14: Sensitive Systems and Computer Modeling

### Feb. 26
Chapter 15: Earth as an Energy System  
**MIDTERM 2** covering periods 8-13  
Chapter 16: Consequences of Chemical Energy Use

### Mar. 5
Chapter 17: Consequences of Nuclear Energy Use  
Video Scientific American Frontiers: Future Car  
Chapter 18: Uses of Solar Energy

### Mar. 12
**Final Examination** 9:00 - 10:48 am  
Wonderful Brunch Break 11:00 am to 12:15pm  
**12:30 - 3:30 pm** 10 Min. Talks on your Lessen Plan

### Instructors:

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