

Course Schedule and Assignments - EGEE 348 – Sp 2008

Energy Supply and Sustainability

January 15: Welcome and introduction of course members; introduction to the course; defining sustainability; energy supply (Chapter 1 in RE (Renewable Energy); pp. 3-40 in Orr, Ecological Literacy, pdf on ANGEL)

January 22: **Thermal Energy, Heat Transfer, Power Cycles (pp. 18-36 in ES)**

January 24: Thermal Power Cycles Examples

January 29: Energy and the Environment (pp. 38-71 in Ehrlich and Ehrlich, Healing the Planet, pdf on ANGEL)

January 31: Soft Energy Paths (pp. 115-132 in Milani, Designing the Green Economy, pdf ANGEL)

February 5: **Geothermal Energy 1 (pp 42-52 in ES)**

February 7: **Geothermal Energy 2 (pp. 342 -382 in RE)**

February 12: **Hydropower 1 (pp. 70-80 in ES)**

February 14: **Hydropower 2 (pp 148-176 in RE)**

February 19: **Hydropower 3 (pp. 177- 194 in RE)**

February 21: Mid-Semester Exam

February 26: **Tidal Power 1 (pp. 80-88 in ES)**

February 28: **Tidal Power 2 (pp 196-242 in RE)**

March 4: **Wave Power 1 (pp. 88-98 in ES)**

March 6: **Wave Power 2 (pp 298-340 in RE)**