**EAS 375**

**Spring 2011**

**Lecture questions - Solar and Wind Power**

What are the two major types of solar power?

Photovoltaic, solar thermal.

Briefly, describe what the Photoelectric Effect is?

Photons absorbed by semiconductors, energy is transferred to an electron, electrons escape their locations leaving a hole. Charged particles move towards grid and produce an electrical current.

What are the advantages of photovoltaic generated power?

What are the disadvantages of photovoltaic generated power?

What are three major types of solar thermal generation?

What are the advantages of solar thermal power?

What are the disadvantages of solar thermal power?

What is the underlying cause for the formation wind?

What are the two major types of wind turbines?

What are the major problems with wind generation?

What are the major advantages of wind power?

What are the major environmental effects that concern environmentalist about wind power generation?

Will clean alterative sources for electricity keep pace with our increasing demand for electricity in the next couple of decades?