Engineering

ENG 471  Seminar Energy & Sustain Engrg  credit: 1 hours.
Challenges of developing energy systems and civil infrastructure that are sustainable in terms of resource availability, security, and environmental impact. Guest lecturers focus on: (i) global challenges -- future energy demand, geologic sources of energy, climate change, energy-water nexus, energy and security; (ii) markets, policies and systems -- economic incentives, policy and law, life cycle analyses; (iii) opportunities for change -- CO2 sequestration, renewable power, bioenergy feedstocks, biofuels for transportation, energy use in buildings, advanced power conversion, the smart grid. Prerequisite: MATH 220 or MATH 221; one of CHEM 104, CHEM 204, ME 200, PHYS 101, PHYS 211. Recommended: NPRE 201.

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Restricted to online non-degree, online MCS, and online MSME students. Online and Continuing Education (OCE) restrictions and assessments apply, see http://www.oce.illinois.edu. For more details on this course section, please see http://online.engineering.illinois.edu/descriptions/summer2011.htm