Energy Management

**ENGY 3300** Introduction to Energy Technology (3 semester credit hours) This course introduces different energy resources (oil, gas, coal, nuclear, wind, solar) and covers technology related to discovering/inventing and exploiting resources, transportation of these resources and their conversion from one form to another. Business processes involved in energy supply chain from resource discovery to end user sales will be examined. Costs incurred and revenues made in the process are also discussed. (Same as MECO 3300) (3-0) Y

**ENGY 3330** Energy Economics (3 semester credit hours) This course builds on topics of market structure, competition, and optimal decision-making presented in intermediate microeconomics. Students gain an advanced understanding of the economic decisions faced by energy producers and consumers in today's society and learn to evaluate incentives faced by industry players and identify causes of and solutions to market inefficiencies. Topics include optimal resource depletion, competitive strategies and incentives for anti-competitive behavior, energy and environmental policy, and energy risk. Prerequisite: ECON 2302. (Same as MECO 3330) (3-0) Y

**ENGY 4300** Energy Land Management (3 semester credit hours) This course is designed to give students a keen understanding of the important role that land law and management practices have for energy industry participants. The course begins by presenting land management activities within the broader energy supply chain and relating their importance to upstream and downstream activities, and then proceeds to a combination of practical experience analyzing Texas land leases and classroom case studies of mineral property rights, lease structure and acquisition, title transfers and recordation, and more. Prerequisite: OPRE 3310. (Same as MECO 4300) (3-0) Y

**ENGY 4313** Energy Finance (3 semester credit hours) Builds on foundations of business finance to develop a methodology for evaluating energy-related investment decisions. Particular emphasis is put on decisions under regulatory and market uncertainty, technology-facilitated substitutability, resource depletion, and real options analysis. Case studies are drawn from the oil, natural gas, electricity, and renewables sectors. Prerequisite: FIN 3320. (Same as FIN 4313) (3-0) Y