

UC Davis Energy Graduate Group

Proposed Program Requirements

Prof. Jean VanderGheynst, Acting Chair

Energy Graduate Group

- EGG will provide training in two core areas
 - Energy Science and Technology
 - Energy Policy and Management
- MS and PhD degrees will be offered
- Admission requirements in proposed bylaws
 - A minimum GPA of 3.0 in the undergraduate program and 3.25 in any prior graduate program
 - Submission of GRE scores; competitive candidates will have a verbal score > 500 and a quantitative score > 700
 - Will have completed calculus (21A,B,C), chemistry (2A,B), physics (7A,B), statistics (STA100), economics (ECN1A, 1B)

Proposed Training Approach

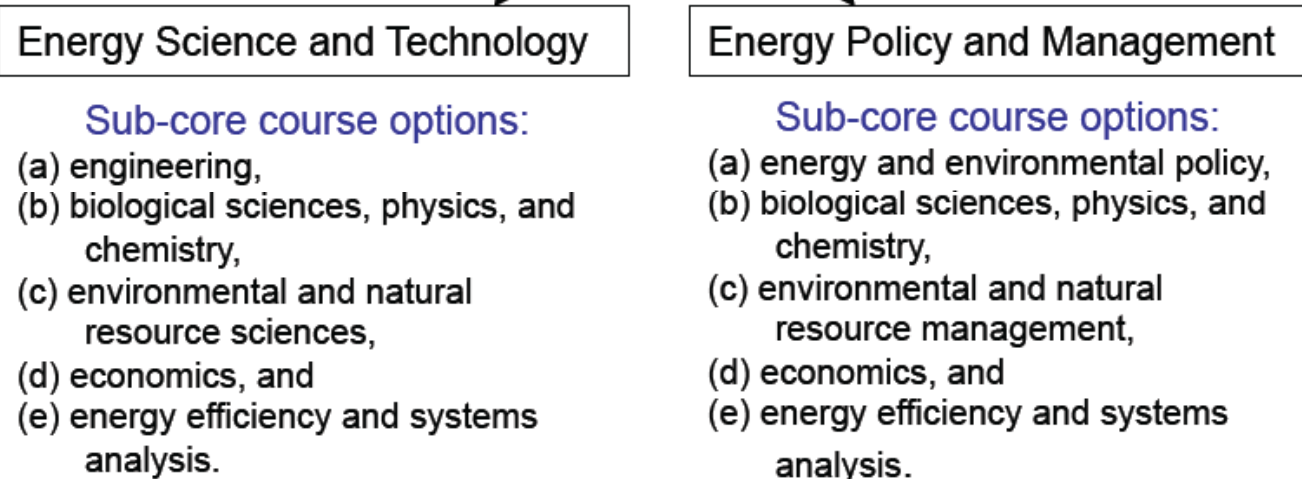
All students are trained in core fundamentals

Additional courses are selected by students based on their research specialization

PhD students to select 3 sub-cores.
MS students to select 2 sub-cores.

- Required Core Courses:**
1. *EGG 200. Fundamentals of Energy Science, Technology, Policy and Management*
 2. *EGG 201. Life Cycle Analysis in Energy Systems*
 3. either *ECI/ESP 252, Transportation, Energy and Climate Policy* or *EGG 202 (currently TTP 289A), Fundamentals of Energy Efficiency*
 4. students in the Ph.D. program will be required to take a course in either experimental design or computation

Student selects one of two possible areas of emphasis in Energy



Examples of Graduates Expected from Program

- **Ph.D. student** with interests in bioenergy production from cellulosic biomass
- Upon completion of the program, this graduate could
 - Work in industry to develop new processing technologies for sustainable bioenergy production from plants
 - Work in academia to train future scientists on bioenergy production

Required Core Courses:

1. *EGG 200. Fundamentals of Energy Science, Technology, Policy and Management*
2. *EGG 201. Life Cycle Analysis in Energy Systems*
3. *EGG 202. Fundamentals of Energy Efficiency*
4. *STA 233. Design of Experiments*



Energy Science and Technology

Sub-core course areas:

- (a) Engineering (process engineering),
- (b) Biological sciences, physics, and chemistry (plant sciences and biochemistry),
- (c) Economics (natural resource economics)



UC Davis Energy Institute

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