

# ENERGY SYSTEMS (EGG)

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## Graduate Studies

### EGG 200 – Introduction to Energy Systems (4 units)

*Course Description:* Technical, societal and environmental components of energy systems at global, national and regional scales from an interdisciplinary perspective. Energy resources; end-uses and demand; electricity systems; energy efficiency; energy justice; energy emissions; energy policy.

*Learning Activities:* Lecture/Discussion 4 hour(s).

*Grade Mode:* Letter.

### EGG 201 – Life Cycle Assessment for Sustainable Engineering (4 units)

*Course Description:* Life cycle assessment methodology. Emphasis on applications to infrastructure and energy systems. Life cycle design, life cycle cost methods, other tools from industrial ecology, and links to policy.

*Learning Activities:* Lecture 4 hour(s).

*Enrollment Restriction(s):* Enrollment restricted to graduate students.

*Credit Limitation(s):* Not open to students who have taken ECI 244.

*Cross Listing:* ECI 244A.

*Grade Mode:* Letter.

### EGG 202 – Energy & Climate Policy (4 units)

*Course Description:* Fundamentals of energy technology, economics, and policy. Survey and analysis of current and prospective climate policies at the local and global level, including but not limited to cap-and-trade, emissions offsets, intensity standards, technology standards, mandates and subsidies.

*Prerequisite(s):* ECN 100A or ECN 100AV or ARE 100A; or consent of instructor.

*Learning Activities:* Lecture 3 hour(s), Extensive Writing/Discussion.

*Enrollment Restriction(s):* Pass One restricted to graduate students in Economics, Energy Graduate Group, and Transportation Technology & Policy Graduate Group.

*Cross Listing:* ECN 216.

*Grade Mode:* Letter.

### EGG 290 – Energy Seminar (1 unit)

*Course Description:* Selected topics of current interest in energy. Topics vary and will be announced at the beginning of each quarter. Seminar speakers include invited speakers from outside the university as well as faculty.

*Prerequisite(s):* Graduate standing or consent of instructor.

*Learning Activities:* Seminar 1 hour(s).

*Repeat Credit:* May be repeated when topic differs.

*Grade Mode:* Satisfactory/Unsatisfactory only.

### EGG 298A – Group Study (1-5 units)

*Course Description:* Directed reading and discussion on select topics.

*Prerequisite(s):* Consent of instructor.

*Learning Activities:* Variable 1-5 hour(s).

*Repeat Credit:* May be repeated when topic differs.

*Grade Mode:* Letter.

### EGG 298B – Group Study (1-5 units)

*Course Description:* Directed reading and discussion on select topics.

*Prerequisite(s):* Consent of instructor.

*Learning Activities:* Variable 1-5 hour(s).

*Repeat Credit:* May be repeated when topic differs.

*Grade Mode:* Satisfactory/Unsatisfactory only.

### EGG 299 – Research (1-12 units)

*Course Description:* Research.

*Prerequisite(s):* Consent of instructor.

*Learning Activities:* Variable 1-12 hour(s).

*Repeat Credit:* May be repeated.

*Grade Mode:* Satisfactory/Unsatisfactory only.