Instructor: Sean Meyn, 455 NEB

Office hours: Weds 4-5pm, 455 NEB (overflow in the cognition & control laboratory)


**Course topics:**
Overview of electricity demand and supply, industry structure, and renewable energy today
Fundamentals of energy and electric power; a survey of traditional and new energy resources
Control on many time-scales - from reserve management to second by second regulation
Power markets today and tomorrow

In addition to regularly scheduled lectures, attendance is required at all ECE Power Systems lectures.
We expect to have speakers from New England ISO, academic visitors, as well as local industry.

**Exams, grading, etc:**
Homework will be assigned regularly.
There will be two midterm exams.
Graduate students will present material from a research paper of their choosing, and will also submit a report - details to be announced.

All exams are closed-book. Calculators are allowed.
You may bring in one notesheet (8.5” by 11” both sides OK) for the first exam. Two for the second.

**Evaluation:**
Graduate students: Two mid-term exams (35% each) 70%, homework 15%, oral/written project 15%
Undergraduate students: Two mid-term exams (35% each) 70%, homework 20%, project 10%