

# Energy Systems

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Energy is one of humanity's greatest challenges and opportunities. As our society grows, our energy appetite has increased exponentially despite limited resources and inefficiencies of legacy infrastructure. The emergence of renewable energy generation, electrified transportation, green buildings, and the systems which manage their interconnection has brought exciting new opportunities to advance societal energy sustainability. Students aligned with this interest area have the unique opportunity to study under the world's academic leaders in this critically timely and important area.

## Available Courses

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The following is an *example* course schedule for a 1-year M.S. student specializing in "energy systems" at UC Berkeley. Of course, your course schedule must comply with [departmental requirements](#).

### Fall 2015

CE 268E – Civil Systems and the Environment

CE 263N – Scalable Spatial Analytics

CE 271 – Sensors and Signal Interpretation

Several Options:

- ER 200 – Energy & Society, or
- ER 254 – Electric Power Systems, or
- ER 290/ARCH 249 – Assessing Building Energy Use and Indoor Environmental Quality

### Spring 2016

CE 295 – Energy Systems & Control

Systems Core Options:

- CE 264 – Behavioral Modeling for Engineering, Planning, and Policy Analysis
- CE 290I – Control and Information Management
- CE C291F – Control and Optimization of Distributed Parameter Systems

Elective Options:

- CE 107 – Climate Change Mitigation
- CE 209 – Design for Sustainable Communities
- CE 256 – Transportation Sustainability
- MBA 212 – Energy & Environmental Markets

Your chosen curriculum can be specialized to your particular interests and career goals. However, it must meet the degree requirements, as per approval from your Graduate Academic Advisor.

Energy Systems area of interest advisor: Professor Scott Moura ([smoura@berkeley.edu](mailto:smoura@berkeley.edu))