Integrating Sustainability Across the Curriculum (ISAC) is a summer program where Professors and undergraduate research assistants work collaboratively to incorporate sustainability into University of Pennsylvania courses. For the ISAC program, I worked with Ariel Ben-Amos and Andrew E. Huemmler to redesign their courses to include more sustainability-related themes.

**Course Objectives**

- **Cities and Sustainability**
  The course uses Philadelphia as a case study to explore the issues confronting modern American metropolises as they look to manage their resources and promote environmentally friendly policies. The course seeks to provide students with an overview of current issues related to the development of sustainable municipal policy and enable students to understand the wider political and operational issues that inform the execution of these initiatives.

- **Energy Systems and Policy**
  This course examines the current U.S. energy industry, from production to consumption, and its impacts on local, regional, and the global environment. The course seeks to provide a fuller understanding of existing energy systems, ranging from technical overviews of each, a review of industry organization, and an exploration of the well-established policy framework each operates within.

The work for this course prioritized the development of course materials. The research included creating examples for assigned projects, developing case studies for the course, and assembling materials for the course. I also wrote short memos on various topics to help identify new case study material.

One project involved using Geographic Information Systems (GIS) to create maps and answer research questions related to mayoral voting tendencies in Philadelphia. (see below).

Because of the ever-changing nature of energy policy in the United States, the materials for this course require constant updating and restructuring. Most of the research work for this course included updating course materials and synthesizing new materials to enhance readings and presentations (examples above). Much of the quantitative data in powerpoint lecture slides was updated to reflect the current state of energy in the United States. New readings on energy policy were also incorporated into the course. Much of the work in energy policy dealt with the new EPA Clean Power Plan, proposed June 2, 2014.