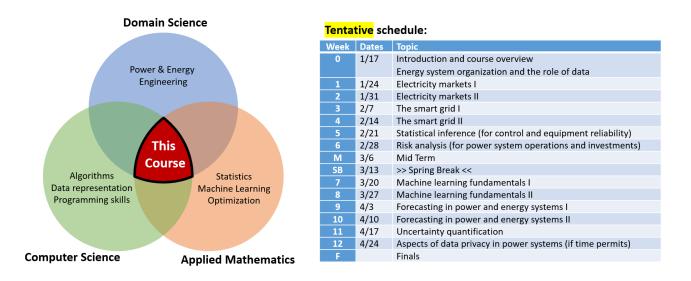


540:559 - Energy Markets and Data Analytics Classroom COR-104, Lectures Wednesday 6:00 -9:00pm Instructor: <u>Robert Mieth</u>

This course will teach fundamental methods of data analytics for applications in modern power and energy systems. It covers aspects of the high-interest topics **renewable energy** and **machine learning.** The first part of the course provides an overview of energy system operations and markets, as well as relevant statistical methods for data-driven decision making. The second part of the course focuses on prediction and forecasting methods specific to energy markets and investments in energy infrastructure. We will also touch upon topics related to data markets and data privacy.



Organization: Lecture, Weekly reading with mini assignments (10%), Project (40%), Mid-term (25% – part of mid-term will be related to the project), Final (25%).

Attendance: For students that are enrolled in a regular program (540:559:01) this is an *in-person* course. For students enrolled in an online (540:559:90) program, this course is available with weekly recordings of the lecture and online exams.

Prerequisites: The lectures will assume a fundamental knowledge of linear algebra and optimization methods. Some basic Python skills are useful.

Questions: Contact the instructor <u>robert.mieth@rutgers.edu</u> with any questions that you may have.