ISE 410 – Fall 2019

Instructor: Eugene Perevalov

Meeting times: TR 10:45-12:00.

General information:
Quite simply, this course covers design and analysis of experiments. Experimentation is fundamental to science and engineering. Two key aspects of experimentation are i) how one sets up and conducts the experiment (experimental design), and ii) how one analyzes the results obtained from the experiment (analysis). It turns out that designing and analyzing experiments in an efficient and fair way can be tricky, thus the need for this course.

The methodology is of only moderate complexity from a mathematical and statistical viewpoint. However, computers are necessary to perform much of the analysis. We will be using the Minitab (whatever the current version is) or SAS statistical analysis package.


Grading Policy:
Most likely, we will have several (not too many) homeworks, a midterm, a final and a project that will involve designing, carrying out, analyzing, and reporting on an experiment. Projects will likely be conducted in groups of three or four. The final grade will be determined as follows.

Homeworks: 20%
Midterm: 25%
Project: 15%
Final: 40%

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