

ISE 410 – Fall 2015

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.

Text: Design and Analysis of Experiments, 8th edition, Douglas C. Montgomery, Wiley.

Grading Policy:

Most likely, we will have several (not too many) homeworks, a couple of exams (in-class or take-home) and a project that will involve designing, carrying out, analyzing, and reporting on an experiment. Projects will likely be conducted in groups of two or three students. The homeworks will account for 25% of the grade and the rest will be divided evenly between exams and projects (however many we will end up with).

Contact Information:

Eugene Perevalov
Office Hours: TR 9:00-10:40 and by appointment
Mohler Lab, Rm. 483
Tel.: 8-4031
eup2@lehigh.edu