by D. C. Montgomery, G. C. Runger, N. F. Hubele (John Wiley & Sons)

Instructor:  B. Levit

Prerequisite:  STAT-251*.

Evaluation:  
- Homework               10%
- Midterm Test           20%
- Final Examination      70%

Outline:

Basic methods of Data analysis (histograms, probability plots). Statistical estimators and their relative efficiency; method of moments. Principles of hypotheses testing; tests for the mean and variance of the normal distribution; tests for the population proportion; two-sample tests. Linear regression, theory of least squares, testing hypotheses about the parameters of a linear model; elements of the model diagnostics.