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## Statistics I

STAT-261\*

**Textbook:** *Probability and Statistics*, 3rd Edition  
by Morris H. DeGroot and Mark J. Schervish (Addison Wesley, 2002)

**Instructor:** A. Savu

**Prerequisite:** STAT-251\*.

<b>Evaluation:</b>	Homework	20%
	Midterm Test	20%
	Final Examination	60%

### 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.