Measurements on engineering systems are subject to fluctuations which can only be satisfactorily characterized by statistical methods. This course discusses modern procedures for interpreting process operating data and experimental test data. Particular attention is devoted to the concepts of random and systematic behaviour in data. This course is designed to provide useful insights into several aspects of data analysis for those students who are limited to a one-term course in this general subject area. At the same time it is hoped that sufficient stimulation will be provided for those who may wish to undertake further study in this field.

**Textbook:** *Engineering Statistics*, 3rd Edition  
by Montgomery, Runger, Hubele (Wiley and Sons)

**Prerequisite:** APSC-171* and APSC-172*.

**Exclusion:** STAT-266*.

**Instructor:** C. Molson

**Evaluation:**  
Final Examination 60%  
Midterm Examination 30%  
Assignments 10%

**Outline:**  