

CEE 490 SECTION 039 STATISTICAL METHODS FOR DATA ANALYSIS AND UNCERTAINTY MODELING

DESCRIPTION

This course provides an introduction to probability and statistical inference with an emphasis on data analysis and modeling the uncertainty inherent in engineering and natural systems. Topics include methods for summarizing and analyzing data, drawing conclusions from available measurements, and presenting probabilistic information. Examples from environmental and engineering systems are used to motivate and illustrate the modeling techniques. Applications of the examined statistical principles to experimental design as well as risk and reliability analysis are also presented. A weekly lab section introduces students to statistical software and provides hands-on practice in applying the topics covered in the lectures.

This course counts for 4 credit hours and may be taken by CEE undergraduate students instead of IOE 265.

PREREQUISITES

Math 116 and Engin 101 or permission of instructor

INSTRUCTOR

Prof. Anna M. Michalak
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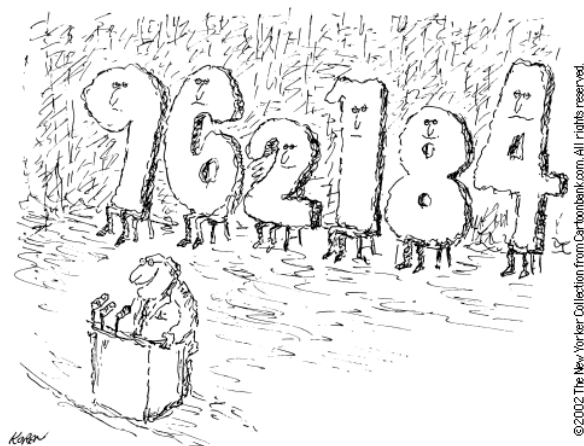
CLASS DETAILS

Lectures:

Location: 185 EWRE
Times: Mondays and Wednesdays, 10:00 – 11:30am

Lab:

Location: SRB 2230 & 185 EWRE
Times: Thursdays 2:30 – 5:30pm



"Tonight, we're going to let the statistics speak for themselves."



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