Stat 602 Syllabus
Modern Multivariate Statistical Learning
Spring 2015


Learning Objectives: The objective of the course is introduce graduate students with a strong background in probability and statistics to the theory and practice of modern "big data" analytics. The course's technically rigorous development will prepare students to effectively choose between existing modern methods and apply them in real problems, and to develop new statistical learning methods.

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Official Office Hours: 2-3 TR in Black Engineering
(Outside of class and official hours, Vardeman is usually in Black Hall)

Course Assistant: Ian Mouzon
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Course Web Page: http://www.public.iastate.edu/~vardeman/stat602/stat602vard.html

Texts: A list of useful books can be found on the course web page. None of them is really appropriate as a single text for the course. The typed Outline/Notes and Slides posted on the Analytics Iowa LLC website will serve as a quasi-text.

There is also some useful relevant material posted on the Stat 502X web page: http://www.public.iastate.edu/~vardeman/stat502x/stat502x.html
A somewhat different organization of some of the material at an undergraduate level is posted on the Fall 2014 Stat 342 web page:


Class Schedule: 12:40-2 PM  1116 Sweeney Hall

Final Exam: M May 4, 12:00-2:00 PM  1116 Sweeney Hall

Course Grading:
- Mid-Term Exam 100pts  T March 10, 7-9 PM  3105 Snedecor
- Final Exam 100pts  M May 4, 12:00-2:00
- Homework 50pts

Assignments: Individual students will prepare and turn in the homework sets by announced due dates. You may discuss these assignments with fellow students and ask Vardeman or the TA for limited help with them. But each individual must write up his or her own assignments for turning in in .pdf form. **This is an integrity issue.** Do not copy what someone else has written and turn it in as your own, and you must write your own code where it is needed.

Accommodation for Students with Disabilities

Iowa State University compiles with the American with Disabilities Act and Sect 504 of the Rehabilitation Act. Anyone requesting an accommodation will need to obtain a SAAR form with recommendations for accommodations from the Disability Resources Office, located in Room 1076 of the Student Services Building.