STATISTICS 524 FALL 2014

INSTRUCTOR Bowei Xi
OFFICE HAAS 228
EMAIL xbw@purdue.edu

COURSE WEB PAGE http://www.stat.purdue.edu/~xbw/courses/stat524/524.htm

GRADER Simeng Qu, simengqu@purdue.edu (Grader Office Hours TBA)

CLASS MEETS MWF 3:30pm-4:20pm, REC 227

OFFICE HOURS Wed 12-2:20pm

TEXT
The Elements of Statistical Learning: Data Mining, Inference, and Prediction, by Hastie, Tibshirani and Friedman, Recommended

GRADING POLICY
• Midterm Exam - 30% (Wed 10/15 08:00p-10:00p LWSN B155)
• Final - 40%
• Homeworks - 30%: Weekly homeworks will be assigned every Fri morning and due next Fri in class. Late homework will not be graded. One homework with the lowest grade will be dropped.

The percentage grades needed to achieve an A, B, C, or D will follow approximately the following scale: 90 - 100 = A, 80 - 89 = B, 70 - 79 = C, 55 - 69 = D, 0 - 54 = F. The minimum score needed for a given letter grade could be lowered if necessary but will not be raised. The scale for assigning for pluses and minuses will occur at approximately 3-point increments.

PREREQUISITE Stat 512 or an equivalent course in applied linear models.

COURSE SUMMARY
We study principal components, factor analysis, canonical correlation, discriminant analysis and clustering algorithms, bagging and boosting, neural networks and support vector machines. Emphasis is placed on using SAS to analyze data for most of the topics. For new statistical tools, R is used.

I will post the new lecture slides and related SAS/R code and data 24 hours in advance. Please print out the slides, and bring it to the class. Also please run the SAS code and bring the printed SAS output to class.

CAMPUS EMERGENCY
In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor’s control. Here are ways to obtain information about the changes in this course.
• Course webpage:
  http://www.stat.purdue.edu/~xbw/courses/stat524/524.htm
• My email: xbw@purdue.edu