INSTRUCTOR: Kang Ling James

OFFICE: Solon Campus Center 158, Phone: 726-6241

OFFICE HOURS: MW 3:00-4:00, Th 1:00-3:00, F 10:30-11:30, or by appointment.

LECTURES: MW 12:00-12:50, Eng 177

TEACHING ASSISTANT: Wencheng Geng

LABORATORY: F 12:00-12:50, MonH 209 (Sec1)  
F 10:00-10:50, MonH 209 (Sec.2)  
The main objectives of the lab are to learn the statistical software SAS  
and to discuss homework problems. First Lab session will be dedicated  
to reviewing the prerequisites.


PREREQUISITE Stat 3611 and Math 2326 or 3280 or Math 4326

COURSE TOPICS: Chapters 1 - 7 and 9 of the textbook, plus selected topics in Chapters 11, 12, 13, if time permits. The main topics are:

1) Simple linear regression: Least squares estimates, confidence intervals, hypothesis testing for the slope and intercept, prediction of new observations, coefficient of determination, correlation.
2) Multiple linear regression.
3) Residual analysis, detection and treatment of outliers, transformations, weighted least squares estimates.
4) Polynomial regression.
5) Variable selection and model building.
6) Selected topics on nonlinear regression.

GRADING: Midterms (2) 40% (20% each)  
Final exam 30%  
Assignments 20%  
Group project 10%

EXAMS: There will be two midterm exams and a cumulative final. The first exam will be on Monday, March 2; the second will be on Wednesday, April 15. The final exam is scheduled for Friday, May 15 at 12:00 - 1:55. All exams are in Engineering 177.

ASSIGNMENTS: There will be written homework assignments which will be graded. Make every effort to hand in homework on time; late homework will only be accepted under exceptional circumstances.

SPECIAL NEEDS: Individuals who have any disability, either permanent or temporary, which might affect their performance in this course are encouraged to inform me at the beginning of the semester. Adaptation of methods, materials, or testing may be arranged in order to facilitate learning.
CELL PHONES, etc.: Ringing and beeping devices disrupt class activities, and every effort should be made to minimize their use. If it is absolutely necessary that you leave your cell phone or pegeron during some class, please inform me at the beginning of the class and sit as near to the door as possible. In addition, students are expected to follow the university’s Student Conduct Code (given at http://www.d.umn.edu/assl/conduct/code).

ACAD. INTEGRITY: Here is the statement suggested by UMD’s Educational Policy Committee: “Academic dishonesty tarnishes UMD’s reputation and discredits the accomplishments of students. UMD is committed to providing students every possible opportunity to grow in mind and spirit. This pledge can only be redeemed in an environment of trust, honesty, and fairness. As a result, academic dishonesty is regarded as a serious offense by all members of the academic community. In keeping with this ideal, this course will adhere to UMD’s Student Academic Integrity Policy, which can be found at http://www.d.umn.edu/assl/conduct/integrity. This policy sanctions students engaging in academic dishonesty with penalties up to and including expulsion from the university for repeat offenders.”

COUNSELING: As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student’s ability to participate in daily activities. University of Minnesota services are available to assist you with addressing these and other concerns you may be experiencing. You can learn more about the broad range of confidential mental health services available on campus via the UMD Health Service Counseling website at http://www.d.umn.edu/hlthserv/counseling/