Instructor: Dr. Earvin Balderama  
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Office Hours: MW 2:30–4pm, or by appt.

Course Info:  
Time & Location: MWF 10:25am–11:15am, Dumbach Hall 123  
Grades, assignments, etc.: https://sakai.luc.edu

Prerequisite: STAT 203 or STAT 335


Computing:  
1. This course will use R, and is freely available from https://www.r-project.org/  
2. (recommended) Download the user interface R-Studio, free from https://www.rstudio.com/

Tentative Schedule:  
Week 1: Intro to Data Analysis and R (Ch 1)  
Week 2: Estimation (Ch 2)  
Week 3: Estimation (Ch 2)  
Week 4: Inference (Ch 3)  
Week 5: Prediction (Ch 4)  
Week 6: Explanation (Ch 5)  
Week 7: Mid-Semester Break! and Diagnostics (Ch 6)  
Week 8: Diagnostics (Ch 6)  
Week 9: Problems with the Predictors and Error (Ch 7-8)  
Week 10: Transformation (Ch 9)  
Week 11: Model Selection (Ch 10)  
Week 12: Shrinkage Methods (Ch 11)  
Week 13: Thanksgiving!  
Week 14: Missing data (Ch 13)  
Week 15: Logistic regression

Grading: The final course grade will be based on four major grading components:

40% — Homework  
25% — Midterm Exam(s)  
25% — Final Exam  
10% — Other assignments, participation

Grading Scale: A 92%, A- 90%, B+ 88%, B 82%, B- 80%, C+ 78%, C 72%, C- 70%, D+ 68%, D 60%

Course Policies:  
Attendance: Attendance is expected. It is a vital part of the class and should be considered with the highest regard. Excessive absences will be interpreted as a lack of serious academic effort. You are solely responsible for missed handouts or announcements made during lecture. If you cannot attend a particular lecture, make sure that you stay informed regarding the information provided during that lecture. Please note: It is your responsibility to drop the course. Even if you stop coming to class, I still may not drop you!
Exams
Make-up exams will be given only in case of a legitimate, documented excuse. If for some reason you are not able to take a particular exam at the scheduled time, you are required to inform me in advance.

Homework
Homework must be clearly written and organized with your full name and chapter/assignment number(s) at the top. I reserve the right to not grade your homework if I can’t read it. ABSOLUTELY NO LATE HOMEWORK WILL BE ACCEPTED.

Academic Integrity
All work in this course must be completed in a manner consistent with the accepted standards of academic integrity. In particular, cheating will result in disciplinary action, including the instructor assigning the grade of “F” and notification of the appropriate Dean. Cheating includes, but not limited to, copying someone else’s work or allowing another student to copy your work, plagiarizing someone’s work or letting someone plagiarize your work and/or others, using unauthorized references, collaborating with another student, giving out answers or receiving answers, etc. The Code of Academic Integrity will be enforced in all areas of the course. More information regarding the relevant policies and procedures, including information about your rights and responsibilities as a student, is available at http://www.luc.edu/academics/catalog/undergrad/reg.shtml.

Special Accommodations
The Americans with Disabilities Act requires that reasonable accommodations be provided for students with disabilities or other special needs. Students who would like accommodations at the University need to contact the Coordinator of Services for Students with Disabilities. For more information, please visit www.luc.edu/sswd/.

Disclaimer
Any information contained in this syllabus is subject to change in accordance with the instructor’s professional best judgment, within the parameters of the official catalogue-description of the course. This and prior syllabi in no way should be imagined to constrain the instructors’ choices of course-materials, assignments, activities, grading-scales, topics, or policies for the current or subsequent offerings of the course.