

University of Iowa
College of Liberal Arts and Sciences
Department of Statistics and Actuarial Science
Applied Linear Regression, STAT:3200 (22S:152)

• **General Information**

- *Instructor*: Kofi Placid Adragani, 231 SH, 319-335-0820, kofi-adragani@uiowa.edu
- *Time & Location*: 10:30PM - 11:20PM Mon, Wed, Fri; 61 SH
- *Office Hours*: 3:30PM - 4:30PM Mon, Wed, Fri, and by appointment
- *Textbook*: Sanford Weisberg, *Applied Linear Regression*, 3rd edition
- *Supplemental Texts*:
 - * John Fox, *Applied Regression Analysis and Generalized Linear Models*, 2nd edition
 - * John Fox, *An R and S-PLUS Companion to Applied Regression*
- *Prerequisite*: STAT:2010 (22S:030) or STAT:2020 (22S:039)
- *Webpage*: <http://www.stat.uiowa.edu/~kadragani/Courses/S152>
- *DEO*: Dale Zimmerman, 241 SH, 335-0712, dale-zimmerman@uiowa.edu

• **Course Objectives**

Regression analysis with focus on applications; *model formulation, checking, selection; interpretation and presentation of analysis results; simple and multiple linear regression; logistic regression; ANOVA*; hands-on data analysis with computer software.

• **Homework:**

- Homework assignments will be posted on the class web page.
- Homework will be due at the end of lecture on the day posted on the class web page.
- One day late homework may be accepted with 25% penalty.
- More than one day late homework will not be accepted under any circumstances.
- Homework must look professional. Failing to do so may induce penalties.
 - * Homework must be submitted on 8.5x11 paper.
 - * Include a cover sheet with only your name, course number and assignment number on the top side.
 - * Copies must be stapled. Unstapled copies are not accepted.

- * All course work must be fully readable; *text messaging acronyms and jargon are not accepted.*
- Do not merely write down answers, but clearly show how you got your results.
- Soft copies are not accepted.
- Working together in groups on homework is permitted and encouraged, but each student must do his/her own write-up of the solutions in his/her own words.

- **Exams:**

- Exams are closed book but you will be allowed one sheet of paper with formulas or notes on both sides for the midterm and the final exams.
- Remember to bring your own calculator for all tests.
- There will be two in-class midterm exams and one final exam. Exam dates and locations are as follows:
 - * Exam 1: Monday, February 14th, 2011 5:30 PM - 7:30 PM in 1505 SC
 - * Exam 2: Friday, March 25th, 2011 5:30 PM - 7:30 PM in 1505 SC
 - * Final exam: Tuesday, May 10th, 2011 12:00 PM - 2:00 PM in 61 SH

- **Grading:**

Your final grade will be determined by a weighted average of homework and exam scores.

- * Homework 25%
- * First Midterm 25%
- * Second Midterm 25 %
- * Final Exam 25%

The grades are assigned according to the following breakdown: 90-100 (A); 80-89 (B); 70-79 (C); 60-69 (D); 50-59 (F). The cutoff points may vary depending on the difficulty of the exams. Also, borderline cases may receive a + or -, and grades may be lowered due to attendance.

- **Software:** R is open-source statistical software and freely available at <http://www.r-project.org>. It is also available in Instructional Technology Centers (ITCs) such as 41 Schaeffer Hall.
- **Special Arrangements:** Anyone who has a disability which may require some modification of seating, testing or other class requirements is urged to see me about this as soon as possible for appropriate arrangements to be made.
- **Attendance:**
 - Lab sessions will be incorporated into lectures. Fundamental R commands for statistical analysis will be discussed. Attendance is vital to your success in the class.
 - You are urged to silence your cell phones in class.
 - Students should read material prior to lecture.

- *The College of Liberal Arts and Sciences Policy and Procedures*

- Administrative Home of the Course: The College of Liberal Arts and Sciences is the administrative home of this course and governs matters such as the add/drop deadlines, the second-grade-only option, and other related issues. Different colleges may have different policies. Questions may be addressed to 120 Schaeffer Hall, or see the CLAS Student Academic Handbook <http://www.clas.uiowa.edu/students/handbook/>
- Electronic Communication: University policy specifies that students are responsible for all official correspondences sent to their University of Iowa e-mail address (@uiowa.edu). Faculty and students should use this account for correspondences. (Operations Manual, III.15.2. Scroll down to k.11.)
- Academic Fraud: Plagiarism and any other activities when students present work that is not their own are academic fraud. Academic fraud is a serious matter and is reported to the departmental DEO and to the Associate Dean for Undergraduate Programs and Curriculum. Instructors and DEOs decide on appropriate consequences at the departmental level while the Associate Dean enforces additional consequences at the collegiate level. See the CLAS Academic Fraud section of the Student Academic Handbook.
- CLAS Final Examination Policies: Final exams may be offered only during finals week. No exams of any kind are allowed during the last week of classes. Students should not ask their instructor to reschedule a final exam since the College does not permit rescheduling of a final exam once the semester has begun. Questions should be addressed to the Associate Dean for Undergraduate Programs and Curriculum.
- Making a Suggestion or a Complaint: Students with a suggestion or complaint should first visit the instructor, then the course supervisor, and then the departmental DEO. Complaints must be made within six months of the incident. See the CLAS Student Academic Handbook.
- Accommodations for Disabilities: A student seeking academic accommodations should first register with Student Disability Services and then meet privately with the course instructor to make particular arrangements. See <http://www.uiowa.edu/~sds> for more information.
- Understanding Sexual Harassment: Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. All members of the UI community have a responsibility to uphold this mission and to contribute to a safe environment that enhances learning. Incidents of sexual harassment should be reported immediately. See the UI Comprehensive Guide on Sexual Harassment for assistance, definitions, and the full University policy. <http://www.uiowa.edu/~eod/policies/sexual-harassment-guide/index.html>
- Reacting Safely to Severe Weather: In severe weather, class members should seek appropriate shelter immediately, leaving the classroom if necessary. The class will continue if possible when the event is over. For more information on Hawk Alert and the siren warning system, visit the Public Safety web site, <http://www.uiowa.edu/~pubsfty>