Course Goals: To learn the basic concepts and techniques of statistical modeling.

Text: Regression Analysis by Example, by Chatterjee and Hadi and An Introduction to Generalized Linear Models by Dobson and Barnett. All editions are acceptable.

Course web page: [http://amath.colorado.edu/faculty/vdukic/4590/index.html](http://amath.colorado.edu/faculty/vdukic/4590/index.html) You will find useful information on the course web page, such as homework assignments and solutions and where to go if you are having trouble with course material. Please check it regularly.

Grade determination: There are a total of 100 points for the course. 50 points are distributed equally over the homework assignments, the midterm exam is worth 25 points, and the final report and presentation together are worth 25.

Traditional grading scale will be used for 4590 students: A− > 90%; B− > 80%; C− > 70%; D− > 60%. Any adjustments to this scale will be made in favor of the student. For 5590 students, grading standards will be higher: A− > 93%; B− > 83%; C− > 74%; D− > 65%.

Homework: The homeworks will be due at the beginning of the class on the due date. Late homework will not be accepted or graded, except in extraordinary circumstances. In most homeworks, your analyses will be best done using a software package (such as R, Mathematica, Matlab, or Stata); in those cases, turn in a write-up of your results, along with the interpreted computer output and commands you used. You can collaborate with your classmates on the programming part, but you must write up the results independently of each other.

Exams: There will be one in-class midterm exam on Mar. 19. The final project involves an in-class presentation (during the last week of classes), and the final project report due on May 2, at 12pm. If you are sick and can't finish the final project, you must bring a note from your doctor or the Wardenburg Health Center verifying your illness. Your course grade will then be determined by the rest of your course work. If you have any unavoidable schedule conflicts with the presentations and exams, you must bring this to the attention of your professor by at least 2 weeks prior to the last week of classes.

Dropping the course: Getting advice from the Dean's office is recommended before dropping any course.

Extra help: You are encouraged to get extra help whenever you need it. The instructor and course assistants will have office hours, which are posted on the webpage. Also, the CU Residence Halls run regular Math Labs and tutoring is available through the dorms or the Engineering Peer Advocates.

Academic Honesty: As educators, we strive to give students the best education possible and to justly and fairly evaluate how a student's work reflects their command of the material. Accordingly, we expect students to uphold the highest standards of academic integrity.

All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu; 303-735-2273). Other information on the Honor Code can be found at [http://www.colorado.edu/policies/honor.html](http://www.colorado.edu/policies/honor.html) and at [http://honorcode.colorado.edu](http://honorcode.colorado.edu). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). While we encourage you to work in groups, **all work turned in must be your own**.
Disability Services: If you qualify for accommodations because of a disability, please submit to your professor a letter from Disability Services in a timely manner (for exam accommodations provide your letter at least one week prior to the first exam) so that your needs can be addressed. Disability Services determines accommodations based on documented disabilities. Contact Disability Services at 303-492-8671 or by e-mail at dsinfo@colorado.edu.

If you have a temporary medical condition or injury, see Temporary Injuries under Quick Links at Disability Services website [https://www.colorado.edu/disabilityservices/] and discuss your needs with your professor.

Religious Observances: Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. In this class, insert your procedures here. See full details at [http://www.colorado.edu/policies/fac_relig.html].

Classroom Behavior: Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, color, culture, religion, creed, politics, veteran status, sexual orientation, gender, gender identity and gender expression, age, disability, and nationalities. Class rosters are provided to the instructor with the student legal names. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. See policies at [http://www.colorado.edu/policies/classbehavior.html].

Sexual Misconduct, Discrimination, Harassment and/or Related Retaliation: The Office of Institutional Equity and Compliance (OIEC) recommends the following syllabus statement: The University of Colorado Boulder (CU Boulder) is committed to maintaining a positive learning, working, and living environment. CU Boulder will not tolerate acts of sexual misconduct, discrimination, harassment or related retaliation against or by any employee or student. CU’s Sexual Misconduct Policy prohibits sexual assault, sexual exploitation, sexual harassment, intimate partner abuse (dating or domestic violence), stalking or related retaliation. CU Boulder’s Discrimination and Harassment Policy prohibits discrimination, harassment or related retaliation based on race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation or political philosophy. Individuals who believe they have been subject to misconduct under either policy should contact the Office of Institutional Equity and Compliance (OIEC) at 303-492-2127. Information about the OIEC, the above referenced policies, and the campus resources available to assist individuals regarding sexual misconduct, discrimination, harassment or related retaliation can be found at the OIEC website [https://www.colorado.edu/institutionalequity/].