Title of Course: ACTS:6200-0001 Predictive Analytics
DATA:6200-0001
Course meeting time and place: MWF – 8:30am - 9:20am; 216 PH
Department of Statistics and Actuarial Science: http://stat.uiowa.edu

Course ICON site: To access the course site, log into Iowa Courses Online (ICON) https://icon.uiowa.edu/index.shtml using your Hawk ID and password.

Course Home
The College of Liberal Arts and Sciences (CLAS) is the home of this course, and CLAS governs the add and drop deadlines, the “second-grade only” option (SGO), academic misconduct policies, and other undergraduate policies and procedures. Graduate students, however, must adhere to the academic deadlines set by the Graduate College.

Instructor
Nariankadu Shyamal Kumar
Office location: 233 SH
Student drop-in hours: MWF 11:30am – 12:30 pm. Students are invited to drop by during these hours to discuss questions about the course material or concerns. I am also available by appointment if you are unable to attend my drop-in hours.
Phone: 319-335-1980
E-mail: shyamal-kumar@uiowa.edu
DEO: Dr. Kung-Sik Chan, 241 SH, 335-0712, kung-sik-chan@uiowa.edu

Grader
Zhenhan Fang – zhenhan-fang@uiowa.edu

Description of Course and Learning Objectives
This course on predictive analytics seeks to introduce you to linear mixed models, generalized linear mixed models, and generalized additive models and cover some applications of these models using associated R packages. But since a heterogeneous group of students takes this course, we will begin with linear models and generalized linear models so that we can all better appreciate what prowess the other models bring into your tool chest. This course’s underlying philosophy mimics the text's preface: "...I think that practical work tends to progress much more smoothly if it is based on solid understanding of how the models and methods used actually work."
Textbook/Materials
The required textbook for this course is the following:
  - Simon Wood
  - Chapman and Hall / CRC Texts in Statistical Science
  - 2017

Academic Honesty and Misconduct
All students in CLAS courses are expected to abide by the CLAS Code of Academic Honesty. Undergraduate academic misconduct must be reported by instructors to CLAS according to these procedures. Graduate academic misconduct must be reported to the Graduate College according to Section F of the Graduate College Manual.

Student Complaints
Students with a complaint about a grade or a related matter should first discuss the situation with the instructor and/or the course supervisor (if applicable), and finally with the Director or Chair of the school, department, or program offering the course.

Undergraduate students should contact CLAS Undergraduate Programs for support when the matter is not resolved at the previous level. Graduate students should contact the CLAS Associate Dean for Graduate Education and Outreach and Engagement when additional support is needed.

Drop Deadline for this Course
You may drop an individual course before the deadline; after this deadline you will need collegiate approval. You can look up the drop deadline for this course here. When you drop a course, a "W" will appear on your transcript. The mark of “W” is a neutral mark that does not affect your GPA. Directions for adding or dropping a course and other registration changes can be found on the Registrar’s website. Undergraduate students can find policies on dropping and withdrawing here. Graduate students should adhere to the academic deadlines and policies set by the Graduate College.

Grading System and the Use of +/-
Undergraduate and graduate students will be treated as two separate groups when it comes to assigning final grades, and + and - grades will be used.

Course Grades
Final course grades will be assessed based on your performance in the following activities:

Quizzes – 28%
Roughly on alternate Monday’s there will be a short quiz in class on the topics covered in the previous two weeks. They are meant to encourage being up to date and master key concepts, either theoretical or computational in nature.
Homework – 52%
Assignments will be given to you by Friday of every week there is an assignment. They must be electronically returned by the beginning of Friday's class of the following week on ICON.

Final Project – 20%
Details of the final applied project work will be discussed in class in due course. It will be due by 5pm of Friday, 12th of May.

College of Liberal Arts and Sciences (CLAS) Course Policies

Attendance and Absences
University regulations require that students be allowed to make up examinations which have been missed due to illness or other unavoidable circumstances. Students with mandatory religious obligations or UI authorized activities must discuss their absences with me as soon as possible. Religious obligations must be communicated within the first three weeks of classes.

Exam Policies

Communication: UI Email
Students are responsible for all official correspondences sent to their UI email address (uiowa.edu) and must use this address for any communication with instructors or staff in the UI community.

Other Expectations of Student Performance
Students have the right to a distraction-free learning environment. Students are expected to help each other learn and to contribute overall to the learning environment of the course. Arriving prepared for class is part of this expectation.

Where to Get Help
Tutor Iowa: https://tutor.uiowa.edu/

University Policies
Accommodations for Students with Disabilities
Basic Needs and Support for Students
Classroom Expectations
Exam Make-up Owing to Absence
Free Speech and Expression
Mental Health
Military Service Obligations
Non-discrimination
Religious Holy Days
Sexual Harassment/Misconduct and Supportive Measures
Sharing of Class Recordings