Statistics 3515-001   **Syllabus 1**   Instructor: J. Glaz
Spring 2021   Office Hour online via Husky CT
     Hours: Tu & Th 2 – 3 pm
     e-mail: joseph.glaz@uconn.edu

Textbook: Design and Analysis of Experiments.
     Douglas C. Montgomery, 10th edition, Wiley

Recommended Primer for SAS: The Little SAS Book - a Primer, 5th Edition or newer,
     by L. D. Delwiche and S. J. Slaughter

Week of	Reading Assignment	Homework (Due on Tuesdays, a week after it is assigned)
Jan. 18	Chapters 1 and 2, 3.1 - 3.3 Lectures 1 - 2 posted on Husky CT	3.9(a), 3.25(a)
Jan. 25	3.4, 3.5.2, 3.5.6 - 3.5.8 Lectures 3 – 4 posted on Husky CT	3.9(c, d, e), 3.25(b, c)
Feb. 1	3.8 – 3.9	3.30, 3.31
Feb. 8	4.1 - 4.2	4.7, 4.14
Feb. 15	4.2 - 4.3, 5.1 - 5.3.4	4.24, 4.38
Feb. 22	5.3.6 - 5.3.7, 5.4, 5.6	5.8, 5.21
Mar. 1	6.1 - 6.3	6.9, 6.11 (a), (b), (d)
Mar. 8	6.4 – 6.5	6.17, 6.24

Remarks: Starting with the third Homework Assignment, all data sets in the homework problems have to be analyzed using SAS software. Moreover, starting with the third homework assignment, always check the validity of the underlying assumptions for the model and use Tukey's multiple comparison procedure to compare the treatment means in fixed effects models, in addition to what is asked in the problems in the textbook.

For random effects models, always estimate the variance components.

When submitting the homework, starting with Homework 3, you need to include the SAS program file and an edited SAS output, based on which you have answered the questions.

Exam 1: Take Home Exam on Thursday, March 4. The material for the exam will include topics covered in the online lectures in Chapters 3 - 5.3.4. Exam 1 will be posted on Husky CT at 11 am on Thursday, March 4th . It will be due to online submission on Husky CT by Friday, March 5th at 2pm.

The University of Connecticut is required to verify the identity of students who participate in distance learning or online courses and to establish that students who register in these courses are the same students who participate in and complete the course activities and assessments and receive academic credit. Verification and authentication of student identity in this course will include: access via Husky CT to online lectures, course material, submission of Homework Assignments and Exams. In addition, office hours, and e-mail communication with the students enrolled via valid UConn e-mail address, will be employed.