

**STAT 8630 — Mixed-Effect Models and Longitudinal Data Analysis**  
**Homework 1 – Due Thursday, Jan. 31, 2013**

**Homework Guidelines:**

- Homework is due by 4:30 on the due date specified above. You may turn it in to me during class, slip it under my door or send it to me via e-mail. I will post homework solutions shortly after all homeworks have been collected. **No late homeworks will be accepted without permission granted prior to the due date.**
- Use only standard ( $8.5 \times 11$  inch) paper and use only one side of each sheet.
- Homework should show enough detail so that the reader can clearly understand the procedures of the solutions.
- Problems should appear in the order that they were assigned.

**Assignment:**

From Davis' book (chapters handed out in class), do problems 4.3(a), 4.4(a), 4.12(a), 5.1, 5.2, 5.3 (but use RM-ANOVA only, not the unstructured multivariate approach), 5.4, and 5.7. Data sets for these problems may be obtained from the following zip file, which is located online at the publisher's (Springer's) website:

[http://www.springer.com/cda/content/document/cda\\_downloaddocument/Website.zip](http://www.springer.com/cda/content/document/cda_downloaddocument/Website.zip)