

# Review Sheet for the Final

**Final: May 13 at 3:10 in Room CBC C321**

**The exam is two hours in length**

The exam covers chapters 1-5 in the Peter Hoff's notes. In addition other material such as the general factorial design and random effects will also be included. You are allowed a calculator for the exam and one 8 1/2 by 11 piece of paper for formulas. Both sides of the paper can be used.

1. See the review sheet for the midterm.
2. The two factor CRD.
3. Blocking designs.
4. The general factorial CRD.
5. Unbalanced data with two factors.
6. When you have unbalanced data, what happens with the sum of squares partition (non-orthogonal sum of squares)? — order matters!
7. Analysis of covariance.
8. The one factor random effects model.
9. The two factor mixed effects model.
10. Split plot designs.
11. Model diagnostics.
12. The population testing approach versus the randomization testing approach for the various designs.