

## STAT 7140: Linear Models (Fall 2014)

Instructor	Dr. Liqun Wang Office: 332 Machray Hall; Phone: 204-474-6270 Email: liqun.wang@umanitoba.ca
Lectures	Tuesday/Thursday: 1:00 pm - 2:15 pm, room 418 MH
Office Hours	Tuesday/Wednesday: 2:30 pm - 3:30 pm
Marking Scheme	Final grade will consist of two tests and one final exam. Their weights and tentative schedules are:  Test #1            25%      October 7, 2014, in class. Test #2            25%      November 4, 2014, in class. Exam               50%      Scheduled by university.
Homework	There will be no formal assignments. Supplementary problems will be given in the class but they are not to be handed in for credits.
Textbook	There is no required text, but the following books are recommended.
References	Rencher, Schaalje: Linear Models in Statistics, 2nd ed, Wiley, 2008.  Searle: Linear Models, Wiley, 1997.  McCulloch, Searle, Neuhaus: Generalized, Linear, and Mixed Models, 2nd ed, Wiley, 2008.
Contents	The following topics will be covered:  1. Matrix algebra 2. Random vectors and quadratic forms 3. Full-rank model 4. Reduced-rank model 5. Linear mixed model

Academic Dishonesty: I wish to draw your attention to the sections in The University of Manitoba Undergraduate Calendar dealing with academic integrity, including plagiarism, cheating and examination impersonation.

## IN THE CASE OF A FIRE ALARM:

- REMAIN CALM
  - IF IT IS SAFE, EVACUATE THE CLASSROOM OR LAB
  - GO TO THE CLOSEST FIRE EXIT
  - DO NOT USE THE ELEVATORS
- IF YOU NEED ASSISTANCE TO EVACUATE THE BUILDING,  
INFORM THE INSTRUCTOR **NOW**
- IF YOU NEED TO REPORT AN INCIDENT OR A PERSON LEFT  
BEHIND DURING A BUILDING EVACUATION, CALL  
**SECURITY SERVICES 204-474-9341**
  - **DO NOT REENTER THE BUILDING**  
UNTIL THE “**ALL CLEAR**” IS DECLARED BY A FIRE WARDEN,  
SECURITY SERVICES OR THE FIRE DEPARTMENT
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