STAT 7310 Section A01

Research Tools for Statistics Fall 2014

This course provides instruction in the use of a number of tools required for graduate level research in statistics. Topics include instruction in various software, such as Lagrange as Library usage, computer, presentation, and communication skills.

Time MWF, 2:30 PM – 3:45 PM, unless otherwise noted.

Location 316 Machray Hall, unless otherwise noted.

Instructor Dave Gabrielson, et. al.

323 Machray Hall

Telephone: 204-474-6688

Email: Dave.Gabrielson@umanitoba.ca

Web Page Department of Statistics: http://www.stats.umanitoba.ca/

Office Hours Open drop in. (Or by appointment.)

Evaluation This course is evaluated on a Pass/Fail basis. You must complete

and pass all given assignments and quizzes.

For purposes of this course, a "pass" is equivalent to a grade of

"B" or better.

Deadlines & Extensions All deadlines for this course are hard deadlines. Extensions

for assignments will not be given. Failure to submit any assignment by its due date will result in failure for this course. Unless a specific time is given, assignments are due

before 4:30 PM on their due date.

An instructor *may* request additional work be done for an assignment, in which case they will give an additional deadline

for that work.

Submission by email An instructor may ask for submission of assignments by

email. After an instructor receives a submission by email, a confirmation of receipt will be sent back to the student. Until the student receives the confirmation, they should *not* assume

the assignment has been submitted.

The student has the responsibility to ensure timely submission

of assignments.

Academic Dishonesty

It is important that you understand what constitutes academic dishonesty and that you are familiar with the very serious consequences. Links to resources that that describe academic dishonesty (including plagiarism, cheating, inappropriate collaboration and examination impersonation) can be found through the Faculty of Science home page at umanitoba.ca/science. Typical penalties imposed within the Faculty of Science for academic dishonesty are also described. See also the sections in THE UNIVERSITY OF MANITOBA UNDERGRADUATE CALENDAR 2014–2015 dealing with academic integrity, including plagiarism, cheating and (im)personation at examinations.

Preliminary Schedule _

Week	Topic
0	No class
1	Command line and coding basics
2	Programming case studies
3	Basic KTEX
4	断gX — math
5	断形 — references & bibliographies
6	Library skills
7	Beamer and presentations
8	CLI redux: networked computers
9	Introduction to R
10	Introduction to R
11	R redux
12	R redux
13	TBA

Online Resources

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Command line http://cli.learncodethehardway.org/book/
Julia http://julialang.org
http://forio.com/labs/julia-studio/tutorials/
ETEX http://en.wikibooks.org/wiki/LaTeX
http://www.giss.nasa.gov/tools/latex/
R http://www.r-project.org
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