Week	Date	Methods	References
1	Sept 15		
	o op o oo	gression	Ch.2-3; CD Ch.1; SM
			Ch.8.2.1, 8.3
2	Sept 22		LM-2 Ch.1,3, Ch.14-
			1,2; LM-1 Ch.1,3,
		collinearity, factors, steps in analysis,	Ch.13; CD Ch.1
		components of inves-	
		tigation, design and	
		analysis	
3	Sept 29	Model Comparison	LM-2 Ch.6; LM-1
J	Sept 29	diagnostics; Model	•
		Selection, Types of	- , ,
		Studies	
4	Oct 6	Model Selection,	LM-2 Ch.14-17;
1	0000	Model Building	LM-1 Ch.14-16 CD
			Ch.6.5, 7.3; SM 8.7
5	Oct 13	Dogierad	IM 2 Cb 14 2, IM 1
9	Oct 13	Design <del>ed</del> experiments of	LM-2 Ch.14.2; LM-1 Ch.13.2; CD Ch.2;
		studies; preliminary	, ,
		analysis unit of	
		analysis, factor and continuous variables	
		continuous variables	
6	Oct 20		LM-2 Ch.15,16; SM
		analysis of variance, interaction Logistic	Ch.9.2; ELM-1 Ch.2
		Regression	
7	Oct 27	Logistic regression; Intro to Generalized	, , , , , , , , , , , , , , , , , , ,
		Linear Models	10.5
8	Nov 3	Generalized Linear	ELM-1 Ch.3.1,6,7;
		Models	SM 10.6
9	Nov 10	Break	
10	Nov 17	Catch up	
10	INOV 11	Catch-up	
11	Nov 24	Nonparametric	ELM-1 Ch. 11; CD
		Regression	Ch.8; SM 10.7.1,2

Week	Date	Methods	References
12	Dec 1	Nonparametric Regression	ELM-1 Ch. 11; CD Ch.8; SM 10.7.1,2
13	Dec 8	Recap	

## Comments

This shows the main topics we'd like to cover, but is subject to adjustment as the course evolves. Electronic copies of the books listed below are available through the U of T Library, and have been posted to Quercus.

The books by Faraway are somewhat easier to read, so if you find Davison daunting go to those first and then come back to Davison after the lecture. The book by Cox & Donnelly is quite different as it sets out very general principles that are well worth reviewing as we go along.

In most weeks I will spend approximately 1 hour on the methods in the table above, 1 hour on selected case studies, and 1 hour on computing, discussion, and questions about the course and assignments.

## References

SM: <u>Statistical Models</u> by A.C. Davison (Cambridge University Press)

CD: <u>Principles of Applied Statistics</u> by D.R. Cox and C.A. Donnelly

LM-1: Linear Models with R 1st edition by J.J. Faraway (Chapman & Hall)

LM-2: <u>Linear Models with R</u> 2nd edition by J.J. Faraway (Chapman & Hall)

ELM-1: Extending the Linear Model with R 1st edition by J.J. Faraway (Chapman & Hall)

ELM-2: Extending the Linear Model with R 2nd edition by J.J. Faraway (Chapman & Hall)