Survival Analysis - MSA630 **Spring 2009**

Preliminary Course Outline

Instructor: Rebecka Jornsten, jornsten@chalmers.se
Class homepage: http://www.math.chalmers.se/Stat/Grundutb/GU/MSA630/V09/

Week	Topics	Chapters	HW/Lab Due
w1	Introduction, Estimators of survival and hazard, LTE,	1, 2.1-2.6 4.1-4.4	 Lab 1 posted
w2	Confidence bands for the survival function. Censoring and Truncation	4.1-4.6 3.1-3.6	Lab 1 due, Lab 2 posted
w3	Recap	1-4	
w4	Testing, comparing survival functions	7.1-7.6	Lab 2 due, Lab 3 posted
w5	Accelerated failure time models AFT, diagnostics	12.1-12.3 12.4-12.5	 Lab 3 due, Lab 4 posted
w6	Proportional hazards models	8.1-8.5	
w7	Model selection Diagnostics	8.6-8.8 11.1-11.4	Lab 4 due

Labs make up 50 % of the final grade.
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Text: J.P. Klein and M.L. Moeschberger

Lab reports

Lab reports should be typed! Unless the lab contains an analytical problem, do not hand in handwritten material.
The report should contain the following;

a) Description of the methods used. Be brief - don't repeat what's in the text, just the key elements.

b) Discuss your results. Results without discussion are not graded.

c) Include only the crucial plots and graphs, don't go for quantity.

d) Label all plots and graphs.

e) Conclusions: what is the take-home message.