

*Course literature:* John P. Klein, Melvin L. Moeschberger (2003 or 2010). *Survival Analysis - Techniques for censored and Truncated Data*, 2:nd edition.

**Prerequisite:** It is assumed that you have knowledge about maximum likelihood estimation.

L1) Basic quantities and models.

Ch. 2

L2) Censoring, truncation.

Ch. 3.1-3.5 (plus skim through 3.6 for an overview)

L3) Nonparametric estimation of basic quantities.

Ch. 4.1-4.6

L4) Competing risks, Hypothesis testing

Ch. 4.7, 7.1-7.3, 7.5, 7.8

L5) Cox proportional hazards regression

Ch. 8

L6) Cox proportional hazards regression, cont'd

Ch. 9.1-9.3, 11

L7) Parametric regression

Ch. 12.1-12.2, 12.5

### Professional Ethics

ISI Declaration on Professional Ethics

<https://isi-web.org/sites/default/files/2024-01/isi-declaration-on-professional-ethics-English.pdf>

ASA Ethical Guidelines for Statistical Practice

[https://www.amstat.org/docs/default-source/amstat-documents/ethicalguidelines.pdf?Status=Master&sfvrsn=bdeeafdd\\_6/](https://www.amstat.org/docs/default-source/amstat-documents/ethicalguidelines.pdf?Status=Master&sfvrsn=bdeeafdd_6/)

RSS Code of Conduct

<https://rss.org.uk/RSS/media/File-library/About/2019/RSS-Code-of-Conduct-2014.pdf>

Ethics code by the Swedish statistics society Statistikfrämjandet (for those who know Swedish):

<https://statistikframjandet.se/wp-content/uploads/2023/06/Etisk-kod-Statistikframjandet-20230602.pdf>

We will be working with exercises from the book during the in-class sessions.

Datasets can be found at Studium.

There are also links to the data sets in the different textbook examples provided below (SAS code is provided for text book examples from 1<sup>st</sup> edition, but a lot is the same):

<https://stats.idre.ucla.edu/?s=klein+moeschberger>