

HELSTA 2017

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READING LIST

Bok A (norsk): Statistiske metoder i helsefag – Odd O. Aalen med kolleger (2006)

- PENSUM VIL BLI GJENNOMGÅTT PÅ FORELESNINGENE OG GRUPPEØVELSENE. DENNE LISTEN ER ANBEFALT LESNING.
- Enkelte avsnitt er merket «Matematisk avsnitt». Disse kan studentene hoppe over.
- Det forventes ikke at studentene skal kunne alle formlene som presenteres. Generelt vil nødvendige formler oppgis på eksamen. Studentene må selvsagt kunne benytte disse.
- Pensum kan grovt sett deles inn i tre deler: Bakgrunnsstoff, hypotesetesting og konfidensintervaller, og regresjon.
- **I: Bakgrunnsstoff**
 - Dette er nødvendig for å kunne forstå resten av pensum.
 - Kapittel 1
 - 1.1-1.6
 - Kapittel 2
 - Hele
- **II: Hypotesetesting og konfidensintervaller**
 - Den viktigste delen av pensum
 - Kapittel 4
 - Hele
 - Kapittel 5
 - Hele
 - Kapittel 6
 - Hele
 - Kapittel 8
 - 8.1-8.7
 - Kapittel 9
 - 9.6
- **III: Regresjon**
 - Denne delen vil bli undervist som et supplement til del II.
 - Det forventes kun at studentene skal ha en konseptuell forståelse av denne delen.
 - Det blir lite fokus på det matematiske.
 - Kapittel 11
 - 11.1-11.4
 - Kapittel 12
 - 12.1-12.3
 - Kapittel 13
 - 13.1-13.3

Book B (English): Medical statistics – Kirkwood and Sterne (copy from 2003)

- THE SYLLABUS IS WHAT IS TAUGHT DURING LECTURES AND GROUP EXERCISES. THIS IS A LIST OF RECOMMENDED READING.

- Students are not required to know all formulas. Generally, necessary formulas will be written on the exam. Students are of course expected to be able to use the formulas.
- Students are expected to know concepts that are necessary to understand the syllabus, even if such concepts are presented in chapters that are not on this list.
- The syllabus can roughly be divided into three parts: Background, hypothesis testing and confidence intervals, and regression analysis.

- I: Background

- Necessary in order to understand the rest of the syllabus

- o Chapter 2
All
- o Chapter 3
All
- o Chapter 4
All
- o Chapter 14
14.1-14.3

- II: Hypothesis testing and confidence intervals

- The most important part of the syllabus

- o Chapter 5
All
- o Chapter 6
All
- o Chapter 7
All
- o Chapter 8
All
- o Chapter 10
10.3
- o Chapter 15
15.1-15.6
- o Chapter 16
16.1-16.6
- o Chapter 21
21.1-21.3
- o Chapter 35
35.1-35.3

- III: Regression

- This part is taught as a supplement to part II.

- Students are only expected to have a conceptual understanding of this part.

- We do not focus on the mathematics.

- o Chapter 10
10.1-10.2
- o Chapter 11
11.1-11.3

- Chapter 19
19.1-19.3
- Chapter 26
26.1-26.3

Useful youtube-videos:

Lara Smith (very basic, does not cover the entire syllabus):

<http://www.youtube.com/watch?v=dalb2VF1i3M>
<http://www.youtube.com/watch?v=vcTn57dLOHc>
<http://www.youtube.com/watch?v=rFNWDLSeaiU>
<http://www.youtube.com/watch?v=p8zDQ6BOh7E>
<http://www.youtube.com/watch?v=NZHPVbRbCAY>
<http://www.youtube.com/watch?v=b13Syg1IhaU>
<http://www.youtube.com/watch?v=JgdiuXDU2rE>
<http://www.youtube.com/watch?v=oFCdA43T0tA>
<http://www.youtube.com/watch?v=IChd2tzDPhw>
<http://www.youtube.com/watch?v=Hvv63NxVNdk>
<http://www.youtube.com/watch?v=CzgZjGz2SIQ>
<http://www.youtube.com/watch?v=lzIDxWGJPss>
<http://www.youtube.com/watch?v=YGpgEtTrB0c>

Kahn academy playlist on statistics (technical, more or less covers the entire syllabus):

http://www.youtube.com/watch?v=uhxtUt_-GyM&list=PL4C863861E3B2E380