

Practical statistics for researchers, 5 ECTS

Course responsible: Cecilia Persson, cecilia.persson@angstrom.uu.se

Course literature: "Statistics and Scientific Method", Diggle PJ and Chetwynd AG.:

<http://www.oxfordscholarship.com/view/10.1093/acprof:oso/9780199543182.001.0001/acprof-9780199543182>

Max 10 participants at a time.

Schedule:

Week 0: Deadline for submission of your own raw data, including a description of the data (cf. materials and methods section of a paper) plus the research questions you want answered from it.

Week 1: Chapters 1-2

Week 2: Chapters 3-4

Week 3: Chapters 5-6

Week 4: Chapters 7-8

Week 5: repetition

Week 6: Lectures and exercises

Weeks 7-11: Homework on your own data

Week 11: Deadline for submission of final report (on analysis of your own data)

Part 1: Distance/home studies, weeks 1-5

You will be invited to an online workspace, where you will get instructions and be able to upload your documents.

You will get a "study buddy" to work together with, as specified below.

Each week (as indicated above):

1. Read the indicated chapters.
2. A) Answer the associated questions, B) write a summary of the chapters – include new words/terminology and other things you would like to remember/think are important. All in the same document. Upload to the online workspace.
3. Check your study buddy's text from the previous week, discuss your texts and amend by the end of the week. (This point is of course not applicable week 1). Report to the course responsible each week (via e-mail) whether or not you have received feedback from your study buddy.

Part 2: On site studies, week 6

First we will go through the questions from Part 1. Then there will be lectures and exercises, learning a statistics software (SPSS), and if there is time we will work on your data. Weeks 7-11 you will analyze your own data and write a final report summarizing the analysis of your own data.