DEPARTMENT OF GLOBAL PUBLIC HEALTH

Karolinska Institutet

K9F3143   Introductory Course in SAS Programming, 1.5 credits (hec)

Introduktionskurs i SAS programmering, 1,5 högskolepoäng

Third-cycle level / Forskarnivå

Approval

This syllabus is approved by the The Committee for Doctoral Education on 2023-11-27, and is valid from Spring semester 2024.

Responsible department
Department of Global Public Health, Faculty of Medicine

Prerequisite courses, or equivalent

No prerequisite courses, or equivalent, demanded for this course.

Purpose & Intended learning outcomes

Purpose

The aim is to introduce fundamental SAS programming language for use in database handling and preparation for analyses. Further, the aim is to introduce the student on how to use statistical procedures in SAS, with focus on descriptive statistics.

Intended learning outcomes

After successfully completing this course you as a student are expected to be able to:
- apply the SAS system when importing and exporting data.
- manipulate data using SAS labels and formats.
- manipulate data using SAS functions and programming statements.
- perform descriptive statistics using adequate SAS procedures.

Course content

The course is designed to give fundamental insights in the SAS system and basic skills in the

SAS programming language. The course embraces commands for definition, description, modification, selection and analysing of data, and covers:
- Introduction to the SAS Windows
- SAS data sets, creating, importing and exporting data
- Data handling, programming statements and SAS functions
- SAS procedures for descriptive statistics

Forms of teaching and learning

Full-time in supervised computer lab with a mixture of interactive lectures and excercises. Every morning a quiz, recapitulating the previous days' lectures.

Language of instruction
The course is given in English.

Grading scale

Pass (G) /Fail (U)

Compulsory components & forms of assessment

Compulsory components

Only the examination is compulsory.

Forms of assessment

To pass the course, the student has to show that the learning outcomes have been achieved. The course will end with an examination consisting of both an individually written and individually computerized exam where the covered commands are used. Students who do not obtain a passing grade in the first examination will be offered a second examination within two months of the final day of the course. Students who do not obtain a passing grade at the first two examinations will be given top priority for admission the next time the course is offered.

Course literature

Recommended reading:
Delwiche LD, Slaughter SJ. The little SAS book: A primer, 3nd edn. Cary, NC: SAS Institute Inc, 2003.
SAS hand outs.