



Introduction to Quantitative Methods in Educational Research Course Schedule autumn 2022

Course teachers

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The course aim and design

The purpose of the course is for PhD candidates who have not taken any previous quantitative and statistics courses to develop their knowledge and skills of quantitative methods and statistical analyses in educational research. The course is composed of lectures, seminars and workshops. During the course, doctoral students will develop (1) their over-view on how to conduct research via quantitative methods and the related design in educational research, (2) their knowledge and skills of basic statistical concepts and procedures, including measurement, distributions, descriptive statistics, and tests of significance, (3) their ability to critically evaluate the statistical analyses identified in literature, and (4) their skill on developing a survey and analyzing the data via SPSS program. The maximum number of course participants is limited to 20. PhD candidates from the Department of Education are given priority in this course.

Literature:

- Clark, T., Foster, L., Sloan, L., & Bryman, A. (eds.) (2021). *Bryman's Social Research Methods (6th ed)*. Oxford University Press.
- Field, A. (2018). *Discovering Statistics Using IBM SPSS Statistics (5th ed)*. SAGE publications.
- Fuster, C. (2022). *Lexical transfer in pedagogical translanguaging: Exploring intentionality in multilingual learners of Spanish*. Doctoral thesis monograph. Stockholm University. [diva2:1625458](#)

Course content and schedule

Date	Themes	Teacher
September 12 Monday 09-15	Lecture: Introduction on the nature of quantitative research and its applications *Literature: Bryman, A. Part 2 (Chapters 7 - 15)	Shu-Nu
September 19 Monday 9-12	Lecture: Introduction to basic statistical concepts and procedures: sampling, data levels of measurement, distributions, descriptive statistics (central tendency, dispersion, and bivariate correlations), simple regression, and tests of significance (parametric and non-parametric tests). *Literature: Field, chapters 1-2, 5-10, 12	Staffan
September 26 Monday 9-15	Workshop on Survey & Report and the related statistics analyses via SPSS	Shu-Nu
October 03 Monday 9-15	Workshop on SPSS: Conducting descriptive statistics and tests of significance. *Literature: Field, chapter 4	Staffan
Oct. 17 Monday 9-12	Seminar: Critical evaluation of empirical articles: Presentation of an article in which quantitative methods are used	Shu-Nu & Staffan
November 15 Tuesday 13-15	Guest seminar: Topic: Using quantitative method(s) in PhD study within educational research (*Guest: Carles Fuster Sansalvador) *Literature: Fuster, C. (2022).	Shu-Nu & Staffan
December 12 Monday 9-16	Seminar: Students orally present their course papers via PowerPoint *Literature will be updated during the course.	Shu-Nu & Staffan
January 15 Sunday 23:59	Students need to submit the final version of course papers for examination due 15 January 23:59 via Athena course site.	Shu-Nu & Staffan