

Syllabus

Quantitative Research Methods, 7.5 ECTS

Kvantitativ forskningsmetod, 7,5 hp

FO30001

Programme	Third-cycle courses and study programmes
Programme ECTS	240/120
Level of education	Third cycle
LADOK (student registry) code, subject field, ECTS	FO30001
ECTS from course	7.5
Grading	Pass, Fail
Course coordinator institution	---
Governing body	Education and Research Board
Date valid	18.05.2015
Revised syllabus	
Revised reading list	
The syllabus applies from	Autumn semester 2015
The reading list applies from	Autumn semester 2015
Current general curriculum	19.09.2013



Admission requirements and other conditions for admission to studies

General entry requirements for third-cycle courses and study programmes (The Higher Education Ordinance, SFS 1993: 100) and specific entry requirements according to general curriculum stipulated on 19 September 2013.

The position of the course in the educational system

The course is at a postgraduate level and is compulsory for third-cycle courses and study programmes.

Learning objectives for the course

Knowledge and understanding

After completion of the course, the doctoral students shall have the ability to:

- distinguish between different forms of multivariate analysis
- explain and critically investigate psychometric testing and assessment tools

Skills and abilities

After completion of the course, the doctoral students shall have the ability to:

- compile and process empirical data so that it can be applied for different statistical analyses
- form an opinion on and carry out statistical analyses with computer support

Judgement and approach

After completion of the course, the doctoral students shall have the ability to:

- independently and critically investigate and evaluate quantitative research results.

Course structure

The course is held as either a part-time study or full-time study.

Course contents

The subjects covered by the course are as follows:

- surveys of assessment tools and tests, and their scientific application
- computer exercises with SPSS
- various forms of multiple regression analysis
- causal analysis and modelling with quantitative data
- interpretation and analysis of published scientific articles with quantitative methods related to the student's dissertation subject.

Teaching methods

The course comprises lectures and seminars. Teaching is in Swedish and/or English.

Examination and grading

The examination is based on the learning objectives. Grading is in accordance with the Higher Education Ordinance, (SFS 1993: 100). The grading comprises Pass (P) and Fail (F). The grades are stipulated by a designated teacher (examiner).

Course certificate

Doctoral students who have passed the course receive a course certificate on request (SFS 1993: 100).

Literature for the course

See separate reading list.

Reading list

- Almquist, Y. B., Ashir, S., & Brännström, L. (2014). *A guide to quantitative methods*. Stockholm: CHESS. (p. 342)
- Altman, D.G. (1990). *Practical statistics for medical research*. London: Chapman and Hall. (p. 624)
- Coaley, K. (2014). *An introduction to psychological assessment & psychometric* (2nd ed.). London: SAGE. (p. 312)
- Djurfeldt, G. & Barmark, M. (Red.). (2009). *Statistisk verktygslåda 2: Multivariat analys*. Lund: Studentlitteratur. (p. 335)
- Greenhalgh, T. (2010). *How to read a paper: The basics of evidence-based medicine* (4. ed.). Chichester: Wiley-Blackwell. (p. 284)
- Shadish, W. (2010). Campbell and Rubin: a primer and comparison of their approaches to causal inference in the field settings. *Psychological methods*, 15 (1): 3-17. doi: 10.1037/a0015916

Other scientific articles.