



DEPARTMENT OF FOOD AND NUTRITION, AND SPORT SCIENCE

IKA305 Applied Quantitative Methods, 7.5 credits

Tillämpade kvantitativa metoder, 7,5 högskolepoäng

Second Cycle

Confirmation

This course syllabus was confirmed by Department of Food and Nutrition, and Sport Science on 2017-10-23 and was last revised on 2019-12-20 to be valid from 2020-01-01, spring semester of 2020.

Field of education: Medicine 50% and Social Sciences 50%

Department: Department of Food and Nutrition, and Sport Science

Position in the educational system

The course is a single subject in-dept course.

Main field of studies

Food and Nutrition

Sport Science

Specialization

A1N, Second cycle, has only first-cycle course/s as entry requirements

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Entry requirements

Bachelor's degree in Food and Nutrition, Nutrition, Sport Science, Medicine, Physiotherapy or equivalent.

Learning outcomes

On successful completion of the course the student will be able to:

Knowledge and understanding

- use statistical terminology and concepts to discuss statistical analysis

- select proper statistical technique in relation to research question, study design, measurement method and data characteristics
- describe assumptions behind statistical analyses

Competence and skills

- use statistical softwares to analyze quantitative data
- use statistical techniques to analyze quantitative data
- use statistical techniques to determine if statistical assumptions are fulfilled
- analyze, compile and present statistical information
- write a report based on quantitative data

Judgement and approach

- criticize and motivate selection of statistical technique for analysis of quantitative data in relation to research question, study design, measurement method and data characteristics
- evaluate statistical results in relation to their clinical relevance

Course content

The course targets fundamental quantitative research design and data analysis in the food and nutrition and sports science research field. It is mainly focused on practical application of different statistical analyze techniques in statistical software, to solve statistical problems in group and individually, where the results are presented and discussed orally and written.

Form of teaching

Teaching is arranged in lectures, workshops, and group works and individual work with seminars.

Language of instruction: English

Assessment

The course is examined by oral presentations at seminars and a written report. All seminars are mandatory with requirement of attendance as the learning outcomes are examined.

If a student is absent from mandatory components, he/she is responsible to contact the person responsible for the course to be provided another course opportunity or alternative task.

If a student, who has failed the same examined component twice, wishes to change examiner before the next examination, a written application shall be sent to the department responsible for the course and shall be granted unless there are special reasons to the contrary (Chapter 6, Section 22 of Higher Education Ordinance).

In cases where a course has been discontinued or has undergone major changes, the student shall normally be guaranteed at least three examination occasions (including the ordinary examination) during a period of at least one year from the last time the course was given. It must not go against Chapter 6 Section 21 of Higher Education Ordinance.

Grades

The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U).

Any of the grades Pass with distinction (VG), Pass or Failed (U) are provided. The grade is based on the overall assessment of the examination components with following weights:

- Group work 1 with oral presentation: 25%
- Group work 2 with oral presentation: 25%
- Individual work with oral presentation: 50%

Adjustments to international grading standards will be provided.

Course evaluation

Written evaluation is performed using the teaching platform and the result guides development and planning of forthcoming course occasions. The results of and possible changes to the course will be shared with students who participated in the evaluation and students who are starting the course. In addition to the written, summative evaluation, oral, formative evaluations may occur. The person responsible for the course compile a report after the course has finished.

Additional information

The course requires own computer brought to the lectures for statistical analyses with statistical software. Statistical software is provided for the course by the University of Gothenburg (Studentportalen).