

## Statistics (D000288)

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

**Course size** *(nominal values; actual values may depend on programme)*

**Credits** 3.0      **Study time** 90 h      **Contact hrs** 30.0 h

### Course offerings and teaching methods in academic year 2020-2021

A (semester 2)	Dutch	Gent	self-reliant study activities	15.0 h
			seminar: practical PC room classes	20.0 h

### Lecturers in academic year 2020-2021

Coorevits, Pascal      GE39      lecturer-in-charge

### Offered in the following programmes in 2020-2021

	crdts	offering
<a href="#">Bachelor of Science in Speech Language and Hearing Sciences (main subject Audiology)</a>	3	A
<a href="#">Bachelor of Science in Speech Language and Hearing Sciences (main subject Logopaedics)</a>	3	A
<a href="#">Linking Course Master of Science in Speech Language and Hearing Sciences (main subject Audiology)</a>	3	A
<a href="#">Linking Course Master of Science in Speech Language and Hearing Sciences (main subject Logopaedics)</a>	3	A

### Teaching languages

Dutch

### Keywords

univariate analysis, multivariate analysis, data analysis on its own, scientific integrity, research datamanagement

### Position of the course

Goal of this course is to learn students general research methods so they will be able to analyse research data, to interpret results and to report conclusions in a scientific way.

### Contents

In this course some statistical techniques will be analysed in a more profound way and special attention will be drawn on multivariate analysis.

Repetition/extension univariate statistical analysis

(Logistic and multiple) regression

ANOVA

Factor analysis

Validity and reliability

### Initial competences

Basic knowledge in statistics is strongly recommended.

### Final competences

- 1 Students understand and can explain advanced statistical techniques
- 2 Students are able – based on arguments – to choose a statistical technique
- 3 Students are able to perform statistical analysis
- 4 Students are able to interpret results and come to a profound conclusion
- 5 Students are able to present results in a scientific (written) way
- 6 Students are able to perform independently a complete statistical analysis and report the results in a scientific way
- 7 Students have insights in relevant aspects of research datamanagement with regard to statistics

**Conditions for credit contract**

Access to this course unit via a credit contract is determined after successful competences assessment

**Conditions for exam contract**

Access to this course unit via an exam contract is unrestricted

**Teaching methods**

Self-reliant study activities, seminar: practical PC room classes

**Extra information on the teaching methods**

Integrated lectures (theoretical and practical) with SPSS. Students get a personal dataset and have to foster some statistical questions resulting in a written report.

**Learning materials and price**

Statistische Gegevensverwerking met behulp van IBM SPSS, P. Coorevits, Buysse H en De Schepper E. (kostprijs +/- 20 euro)

**References**

Petrie, A., & Sabin, C. (2000). Medical Statistics at a glance. Blackwell Science.

**Course content-related study coaching****Evaluation methods**

end-of-term evaluation and continuous assessment

**Examination methods in case of periodic evaluation during the first examination period**

Written examination, skills test

**Examination methods in case of periodic evaluation during the second examination period**

Written examination, skills test

**Examination methods in case of permanent evaluation**

Assignment

**Possibilities of retake in case of permanent evaluation**

not applicable

**Calculation of the examination mark**