

## Statistics for Business II (F710231)

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

**Credits 3.0** **Study time 90 h**

**Course offerings and teaching methods in academic year 2025-2026**

A (semester 2)	Dutch	Gent	lecture seminar
B (semester 1)	Dutch	Gent	seminar lecture

**Lecturers in academic year 2025-2026**

De Vos, Odile	EB21	staff member
Bleys, Brent	EB21	lecturer-in-charge

**Offered in the following programmes in 2025-2026**

	crdts	offering
Bachelor of Science in Business Administration	3	A
Linking Course Master of Science in Business Administration	3	B
Preparatory Course Master of Science in Business Administration	3	B

**Teaching languages**

Dutch

**Keywords**

Statistics, Statistical Analysis

**Position of the course**

This course is the second in a series of three courses on statistics in the bachelor programme for students in Business Administration. It introduces how one can make use of data from a sample / samples to estimate unknown parameters in (a) population(s) or to test specific hypotheses about these parameters. The set-up of the course is rather practical as the emphasis is put on understanding and interpretation. The underlying concepts are extensively illustrated by applications and examples in economic settings. The main goal is to make students familiar with the fundamental cornerstones of statistical analysis.

**Contents**

The following topics will be reviewed:

- Sample variables and theoretical distributions
- Confidence intervals
- T-tests (null hypothesis, type I and II errors, p values, 1 sample vs. 2 samples)
- Analysis of variance (ANOVA)
- Chi-square tests
- Regression and correlation

**Initial competences**

- 1 Insights in the procedures and tools (measures and graphical representation) of descriptive statistics
- 2 Understanding and being able to apply the basic concepts in probability theory
- 3 Being able to calculate chances for the binomial and normal distribution functions
- 4 Understanding sample distributions and the importance of the central limit theorem

**Final competences**

- 1 Gaining insights in the fundamental concepts underlying statistical analysis.
- 2 Being able to use sample data to describe a population (estimates and confidence intervals or testing hypotheses).
- 3 Being able to compare two or more populations using multiple samples in independent and dependent settings.
- 4 Being able to determine whether a qualitative variable follows a specific distribution, and whether two qualitative variables are independent of each other.
- 5 Being able to estimate a population parameter using one independent variable.
- 6 Problem-solving capacity - i.e. being able to formulate hypotheses in a proper way, or being able to identify the most appropriate statistical tool for a specific (research) problem.

#### **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**

Seminar, Lecture, Independent work

#### **Extra information on the teaching methods**

Plenary lectures (theoretical background).

Supervised exercises (sometimes following an online learning pathway independently).

#### **Study material**

Type: Handbook

Name: Statistiek. 14de editie

Indicative price: € 65

Optional: no

Language : Dutch

Author : McClave, Sincich & Knypstra

ISBN : 978-9-04303-346-6

Number of Pages : 454

Oldest Usable Edition : All previous editions can be used.

Online Available : No

Available in the Library : Yes

Available through Student Association : Yes

Usability and Lifetime within the Course Unit : intensive

Usability and Lifetime within the Study Programme : intensive

Usability and Lifetime after the Study Programme : occasionally

Additional information: This textbook is also used for "Statistiek voor Bedrijfskundigen I" (1st Bachelor), so students in

Ba 2 will already have purchased this in the past. Students in Linking course should buy the textbook (which is also used in Onderzoeksmethoden II)..

Type: Syllabus

Name: Statistiek voor Bedrijfskundigen II - Oefeningenbundel

Indicative price: € 3

Optional: no

Language : Dutch

Number of Pages : 80

Available on Ufora : No

Online Available : No

Available in the Library : No

Available through Student Association : Yes

#### **References**

#### **Course content-related study coaching**

Questions during and after the lectures, through the forum on Ufora and during organized Q&A sessions.

#### **Assessment moments**

end-of-term assessment

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

Written assessment

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

Written assessment

**Examination methods in case of permanent assessment**

**Possibilities of retake in case of permanent assessment**

not applicable

**Extra information on the examination methods**

Written exam that consists of both open questions (exercises, 80% of the final score) and multiple choice questions (theory, 20% of the final score). The emphasis is put on the exercises.

**Calculation of the examination mark**

periodic evaluation (100%)