



Introduction to Statistics

offered by the MSc Epidemiology Program of the UMC Utrecht and Utrecht University

The aim of the course is to bring all students, irrespective of their prior knowledge, up to the necessary level to enable them to participate in other statistical courses. In order to achieve this aim, you will be tested on your statistical knowledge at the start of the course. The results will give you an insight into your own statistical strengths and weaknesses, enabling us to provide you with specific advice on how best to participate in the course.

Introduction to Statistics is part of [MSc Epidemiology Postgraduate Online](#); the online MSc program in Epidemiology offered by Utrecht University, University Medical Center Utrecht, MSc Epidemiology and Elevate Health.

Learning objectives

- ✓ Explain and use the different types of variables: quantitative (numerical) vs. qualitative (non-numerical) with their corresponding sub-types (continuous, discrete, ordinal, non-ordinal)
- ✓ Summarize data in a graphical and numerical way, using measures of location and dispersion
- ✓ Interpret data that is presented both graphically and numerically
- ✓ Calculate the different types of frequency measures: 'absolute', 'relative' and 'cumulative' frequency
- ✓ Calculate (standard) normal probabilities for, and apply standardization formula to, normally distributed data
- ✓ Calculate binomial probabilities
- ✓ Apply the principle of statistical inference from sample to population
- ✓ Perform simple statistical analysis in the statistical packages SPSS and R

[Visit our course page](#) to find out more about this course.

For whom?

- ✓ Researchers
- ✓ Medical doctors
- ✓ PhD candidates
- ✓ Policy makers and managers
- ✓ Specialists working in health care management

Facts

- ✓ 1,5 ECTS
- ✓ 19 Feb 2018 to 11 Mar 2018
- ✓ Online
- ✓ 14 hrs/week workload
- ✓ 385 Euros
- ✓ English
- ✓ Web lectures, exercises, group discussions

You may be also interested in

- ✓ [Introduction to Epidemiology](#)
- ✓ [Clinical Epidemiology](#)



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