



UMC Utrecht  
Julius Center

# Introductory Biostatistics for Researchers 2018

Online introductory course in biostatistics



## Introduction

This course provides an introduction in statistical methodology and discusses a number of statistical techniques for practical data analysis, including T tests, Chi-square tests, analysis of variance (ANOVA), (multiple) linear and logistic regression and survival analysis. Concrete examples and case studies are used to apply the theory to practical situations. The course ends with a group assignment in which a case study is analyzed using the newly acquired statistical techniques.

## Programme

The course consists of 10 learning units (LU's). In each LU a statistical theme is explained using short web lectures, alternated with computer exercises. Examples from medical and biological research will be used in the exercises. Datasets will be analyzed using the statistical software packages R and/or SPSS. (You need to ensure that these programs are available to you. R is freeware, for SPSS a campus license is available for most universities.) In the various LU's discussion forums are provided in which you can discuss theory and practice exercises with staff and fellow participants. The Statistics Cafe will serve as a virtual meeting place for discussing more general statistical questions, and to talk with your peers about your own research.

## Language

All courses will be taught in English.

## Prerequisite knowledge

Although active statistical knowledge is not a prerequisite, we assume some basic knowledge on statistics and mathematics acquired through, for example, courses in biostatistics in the bachelor programme or self study.

The basic knowledge we assume are:

- the concepts of population and sample
- histogram, boxplot, frequency table, scatterplot
- mean, median
- variance, standard deviation, range, interquartile range, standard error of the mean
- probability, probability distributions (especially the normal distribution)

## Number of Credits

4,5 EC

## Course dates

October 1 - December 14, 2018 (i.e. 1 LU per week; 2 weeks for LU 10 (collaboration assignment))

## Certificate

After active participation during the whole course (morning and afternoon sessions) participants will receive a certificate.

## Course fee

The fee for the “Introductory Biostatistics for Researchers” course depends on your affiliation.

Internal (registered with GSLS) PhD candidates: € 500

Internal (not registered with GSLS) PhD candidates: € 1400

External (academic, AiO/OiO's, researchers) : € 1400

External non-profit organizations: € 1550

External profit organizations: € 1900

‘Internal PhD candidates’ refers to PhD candidates who are working (either on a salary or on a scholarship) at the faculty of Science, faculty of Veterinary Medicine or UMC Utrecht. *Please note that you can use your personal course budget of €400/year (€1,600 max) to pay for these courses. This budget is managed by your department (faculty of Science/Veterinary Medicine) or division (UMC Utrecht).*

‘External participants’ include PhD candidates working elsewhere (even those registered with the PhD programmes of the Graduate School of Life Sciences, e.g. at the Hubrecht Institute), PhD candidates from other Schools and postdocs.

## Registration

To register for the course , please fill in the registration form and send it to [secretariaatbiostatistiek@umcutrecht.nl](mailto:secretariaatbiostatistiek@umcutrecht.nl) . We will confirm your registration by e-mail as soon as we have received your registration form.

## Certificate

After active participation during the whole course (morning and afternoon sessions) participants will receive a certificate.

## More information

For more information, please contact Bert Agterhuis [secretariaatbiostatistiek@umcutrecht.nl](mailto:secretariaatbiostatistiek@umcutrecht.nl)

## Registration Form Online Course

### Introductory Biostatistics for Researchers 2018

Title:.....Initials:.....Surname.....  
First name.....Gender.....  
UMC Division:.....  
Vakgroep/Department:.....  
Company/Organization:.....  
Name Supervisor/Promotor:.....  
Address:.....  
Telephone:.....E-mail:.....

I am:

- Academic**
  - AIO/OIO of the department of Biology, Pharmaceutical Sciences, Veterinary Sciences or UMCU at Utrecht University
  - PhD-student, registered with UU Graduate School of Life Sciences (GSLs)
  - Academic – others, namely:
    - AIO/OIO other department Utrecht University
    - Post-doc or researcher at Utrecht University
    - Master student or Excellent trace student at Utrecht University
    - AIO/OIO at other University
    - Post-doc or researcher at other University
    - Master student or Excellent trace student at other University
- from a **Non-profit organization** (e.g.hospitals, TNO, NIHES)
- from a **Profit organization** ( e.g. companies)

WBS code(UU, PhD students GSLs) or Kostenplaats (UMCU, PhD students GSLs) .....

If applicable: Purchase order/activity/Reference/Project Number.....

- I would like to enroll the online course Introductory Biostatistics for Researchers, October 1 – December 14, 2018

#### Course fee

The fee for the course is € 1400,- for academic, € 500 for PhD-students UU/UMCU GSLs, € 1550,- for non-profit organizations and € 1900,- for profit organizations.

#### Certificate

After active participation during the entire course the participant will receive a certificate.

Date: ..... Signature applicant .....

Signature Supervisor / Promotor.....

Please send this form to the Secretariate Biostatistics, Julius Center, Huispost Str 6.131., P.O.Box 85500, 3508 GA Utrecht or fax 088 7568099 or email : [secretariaatbiostatistiek@umcutrecht.nl](mailto:secretariaatbiostatistiek@umcutrecht.nl)



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