



UMC Utrecht  
Julius Center

# Introductory Biostatistics for Researchers 2021

Online introductory course in biostatistics



University Medical Center Utrecht

## 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

January 11 – March 26 (11 weeks), 1 LU per week and 2 weeks for LU 10 (collaboration assignment))

## Certificate

After active participation during the whole course participants will receive a certificate.

## Course fee

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

Internal (registered with GSLS and MyPhD) PhD candidates UMCU/UU Beta Sciences/UU Veterinary Sciences: free. Please note: if you cancel your application within 4 weeks before the start of the course or do not meet the attendance requirements you(or your dept/research group) will be charged with a no show fee ( € 700 for this course)

Internal (not registered with GSLS) PhD candidates: € 1450,-

External (academic, AiO/OiO's, researchers) : € 1450,-

External non-profit organizations: € 1625,-

External profit organizations: € 2050,-

## 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.

## More information

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

## Registration Form Online Course

### Introductory Biostatistics for Researchers 2021

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) or Costcenter (UMCU) .....

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

☐ I would like to enroll the online course Introductory Biostatistics for Researchers, January 11 – March 26

#### Course fee

The fee for the course is € 1450,- for academic, PhD-students UU Beta Sciences/UU Veterinary Sciences/UMCU free (if registered with UU Graduate School of Life Sciences and MyPhD), €1625,- for non-profit organizations and € 2050,- for profit organizations. Fee for canceling your application within 4 weeks before the start of the course or not meeting the course attendance requirements: € 700

#### Cancellation other than GSLs

For each course, if cancelled within four weeks of the start of a course, 50% of the fee will be charged; if cancelled within one week of the start of a course or during a course: 100% will be charged. In all other cases: € 50,- (excl. BTW) administration costs will be charged.

#### 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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<https://juliuscentrum.umcutrecht.nl/nl-NL/over-julius-centrum/agenda>