### Module title
Biometric Methods

### Abbreviation
03-TM-BIOM-181-m01

### Module coordinator
Institute of Clinical Epidemiology and Biometry (ICE-B)

### Module offered by
Faculty of Medicine

### ECTS
5

### Method of grading
Numerical grade

### Duration
1 semester

### Module level
Graduate

### Other prerequisites
May not be combined with 03-TM-BSTAT.

### Contents
Working with the statistical software SPSS; preparation of data; descriptive statistics; methods of inferential statistics; statistical modeling for quantitative, binary, ordinal and survival data.

### Intended learning outcomes
The students are able to prepare data tables, import, export, merge, transform and recode data. They can describe data by numerical measures and present them graphically. They are familiar with tests of significance and confidence intervals and know the common basic methods of statistical analysis. The students perform multiple regression analyses with the general linear model, binary and ordinal logistic regression and Cox regression (including time-dependent covariates) and are able to check for statistical interaction. At the end of the course, the students perform analyses and create tables and figures for a scientific paper.

### Courses
(V (3) + S (1))
Module taught in: German or English

### Method of assessment
Belegarbeit (thesis)
Language of assessment: German or English

### Allocation of places
--

### Additional information
--

### Referred to in LPO I
(examination regulations for teaching-degree programmes)
--

### Module appears in
Supplementary course Translational Medicine (2018)
Master's degree (1 major) Translational Medicine (2018)