neu720 -

Module label
neu720

Module code
neu720

Credit points
6.0 KP

Workload
180 h
(1,5 SWS Lecture (VO) Total workload 68h: 28h contact / 20h background reading / 20h exam preparation 2,5 SWS Supervised exercise (UE): Total workload 113h: 28h contact / 20h background reading / 65h exercise solving)

Used in course of study
- Master's Programme Biology > Skills Modules
- Master's Programme Neuroscience > Skills Modules

Contact person
Module responsibility
- Fabian Otto-Sobotka

Authorized examiners
- Fabian Otto-Sobotka

Entry requirements

Skills to be acquired in this module
+ Social skills
+ Interdiscipl. knowlg.
++ Maths/Stats/Progr.
+ Scientific English

students learn the use of the software R in application scenarios
students learn to actively "speak" the programming language R
students practice statistical data analysis with R

Module contents
The lecture gives an intuitive introduction into the use of the statistics software R. We start by introducing the basic handling of R and the syntax of its programming language. We use those to obtain the first statistical analyses from R. The next important step is to create informative graphics to represent the statistical results. Finally, we look into programming concepts that allow for more complex statistical analyses.

Reader's advisory
R Core Team - R: A language and environment for statistical computing (Reference Manual)

Links
Language of instruction
English

Duration (semesters)
1 Semester

Module frequency
annually , summer term

Module capacity
24

Reference text
Recommended previous knowledge / skills: basic statistical knowledge including regression analysis

Modullevel
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Moduiart
je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program
basic statistical knowledge including regression analysis

Vorkenntnisse / Previous knowledge

Examination
Final exam of module
Time of examination
after the course
Type of examination
practical exercise

Course type
Lecture
Comment
2.00
Frequency
SuSe
Workload attendance
28 h
Exercises
2.00
SuSe
28 h

Total time of attendance for the module
56 h