neu210 - Neurosensory Science and Behaviour - Part A

Module code: neu210  
Credit points: 9.0 KP  
Workload: 270 h  

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

Contact person:
Module responsibility: Georg Martin Klump
Authorized examiners: Alle hier genannten
Module counseling: Ulrike Langemann, Jannis Hildebrandt, Henrik Mouritsen

Entry requirements:
Skills to be acquired in this module:
++ Neurosci. knowlg. + Expt. methods + Independent research + Scient. literature + Social skills
++ Interdiscipl. knowlg. Maths/Stats/Progr. + Data present./disc. + Scientific English Ethics

Upon successful completion of this course, students:
- know the fundamentals of behavioural ecology and neuroethology
- are able to present and critically assess scientific data and approaches

Module contents:
The lecture “Neuroethology” provides an introduction to the mechanisms underlying the behaviour of animals. Subjects are, e.g., the mechanisms of perception, control of movement patterns, mechanisms of learning, orientation and navigation.
The lecture “Behavioural ecology” provides an introduction to topics such as predator-prey interactions, optimal food utilization, spatial and temporal distribution of animals, social relations and group formation, mating systems and reproductive strategies, sexual selection, investment of parents in offspring, and communication.
In the seminar “Current issues of Ethology”, current original literature relating to behavioural biology is reported and discussed.

Reader’s advisory:

Links:
Language of instruction: English
Duration (semesters): 1 Semester
Module frequency: jährlich
Module capacity: 30
Reference text: Course in the second half of the semester

Modullevel: ---
Modulart: je nach Studiengang Pflicht oder Wahlpflicht
Lern-/Lehrform / Type of program:
Vorkenntnisse / Previous knowledge:

Examination:
Type of examination: as agreed, usually in the break after the winter term
80% written exam (content of the two lecture series), 20% presentation(s)

Course type:
Lecture: 4.00 Frequency: 56 h Workload attendance: 56 h
Seminar: 2.00 Frequency: 28 h Workload attendance: 28 h

Total time of attendance for the module: 84 h