# neu270 - Neurocognition & Psychophysics

## Module label
Neurocognition & Psychophysics

## Module code
neu270

## Credit points
15.0 KP

## Workload
450 h

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

## Contact person
Module responsibility
- [Georg Martin Klump](#)

**Authorized examiners**
- [Alle hier genannten](#)

**Module counseling**
- [Christiane Margarete Thiel](#)
- [Ulrike Langemann](#)
- [Carsten Gießing](#)

### 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
- **The aim of the module is the study of different aspects of psychophysics or neurocognition. Students participate in ongoing projects and gain a first insight into topical research.**

### Module contents
- **Students have the choice of two basic streams:**
  - **Stream 1: "Neurocognition"** comprises
    - (i) an exercise "Introduction to MATLAB" [2 SWS],
    - (ii) a lecture "Functional MRI data analysis" [2 SWS], and
    - (3) a practical course [5 SWS] and a seminar "Experiments on Neurocognition" [1 SWS] including aspects of planning, performance and analysis of functional neuro-imaging studies using MATLAB based software.
  - **Stream 2 "Psychophysics of Hearing"** comprises
    - (i) exercise "Introduction to MATLAB",
    - (ii) lecture and seminar "The sense of hearing",
    - (iii) a laboratory project in which psychoacoustical experiments into the function of the auditory system are performed.

### Reader’s advisory

## Links
- [Cambridge University Press](#)
- [Psychology Press](#)

## Language of instruction
English

## Duration (semesters)
1 Semester

## Module frequency
jährlich

## Module capacity
unlimited

## Reference text
Course in the second half of the semester

**Regular active participation is required to pass the module**

**Modullevel**
MM (Mastermodul)

## Modulart
Wahlpflicht

### Lern-/Lehrform / Type of program

<table>
<thead>
<tr>
<th>Examination</th>
<th>Time of examination</th>
<th>Type of examination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final exam of module</td>
<td>end of summer term</td>
<td>70% report or oral exam or written exam, 30% presentation (talk or poster)</td>
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**Course type**

<table>
<thead>
<tr>
<th>Comment</th>
<th>SWS</th>
<th>Frequency</th>
<th>Workload attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>2.00</td>
<td>28 h</td>
<td></td>
</tr>
<tr>
<td>Exercises</td>
<td>2.00</td>
<td>28 h</td>
<td></td>
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<tr>
<td>Practical</td>
<td>6.00</td>
<td>84 h</td>
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**Total time of attendance for the module**
140 h