# neu270 - Neurocognition & Psychophysics

<table>
<thead>
<tr>
<th>Module label</th>
<th>Neurocognition &amp; Psychophysics</th>
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<tbody>
<tr>
<td>Module code</td>
<td>neu270</td>
</tr>
<tr>
<td>Credit points</td>
<td>15.0 KP</td>
</tr>
<tr>
<td>Workload</td>
<td>450 h</td>
</tr>
<tr>
<td>Used in course of study</td>
<td>• Master's Programme Neuroscience &gt; Background Modules</td>
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<tr>
<td>Contact person</td>
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## 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 (iii) 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”, and (iii) a laboratory project in which psychoacoustical experiments into the function of the auditory system are performed.

## Reader’s advisory


## Links
- 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
- Modulelevel: MM (Mastermodul)
- Modulart: Wahlpflicht

## Examination
**Final exam of module**
- Time of examination: end of summer term
- Type of examination: 70% report or oral exam or written exam, 30% presentation (talk or poster)

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