# neu140 - Neurophysiology

**Module label**  
Neurophysiology

**Module code**  
neu140

**Credit points**  
9.0 KP

**Workload**  
270 h

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

**Contact person**  
- Martin Greschner

**Module responsibility**

- Alle hier genannten

**Authorized examiners**

- Karin Dedek
- Jutta Kretzberg

**Entry requirements**  
- attendance in pre-meeting

**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

**Theory:** Improved theoretical and methodological knowledge in neurobiology. Discussion of scientific work and presentation of own results.

**Practice:** Performing electrophysiological experiments. Gaining modern methodological skills.

**Module contents**

- Lecture: first week, 5-4 h introduction to current neurophysiology.
- Seminar: weeks 2-4, each 4 h discussion of background literature and results of own experiments.
- Lab course: weeks 2-4, each 25 h electrophysiological experiments with introduction to at least two of the techniques extracellular recording / intracellular recording / patch clamp

**Reader's advisory**  
Background and seminar literature will be available in Stud.IP

**Links**

**Language of instruction**  
English

**Duration (semesters)**  
1 Semester

**Module frequency**  
jährlich

**Module capacity**  
unlimited

**Reference text**  
Course in the first half of the semester

- Regular active participation and presentation(s) within the scope of the seminar are required to pass the module

**Modullevel**  
MM (Mastermodul)

**Modulart**  
Wahlpflicht

**Lern-/Lehrform / Type of program**

- Vorkenntnisse / Previous knowledge

**Examination**

- **Final exam of module**  
  - Time of examination: summer semester, first half
  - Type of examination: Portfolio consisting of short tests and short reports

**Course type**

<table>
<thead>
<tr>
<th>Course type</th>
<th>Comment</th>
<th>SWS</th>
<th>Frequency</th>
<th>Workload</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td></td>
<td>2.00</td>
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<td>28 h</td>
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<tr>
<td>Seminar</td>
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<td>WiSe</td>
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**Total time of attendance for the module**  
112 h