

# Study programme - M.Sc. Integrative Neuroscience

## Third semester (advanced courses)

You must take 30 CP: 24 CP of 36 CP electives (WPF) plus 6 CP core courses (PF). An additional 3 CP are offered optionally (WF).

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|---|---|--|---|--|---|
| 3<br>S<br>E<br>M<br>E<br>S<br>T<br>E<br>R | <b>Modul VA</b><br><b>Molecular and Cellular Neuroscience</b><br><br><b>12 CP (WPF)</b>         | <b>Modul VB</b><br><b>Systems and Behavioural Neuroscience</b><br><br><b>12 CP (WPF)</b> | <b>Modul VC</b><br><b>Theoretical and Computational Neuroscience</b><br><br><b>4 CP (WPF)</b> | <b>Modul VD</b><br><b>Clinical and Applied Neuroscience</b><br><br><b>8 CP (WPF)</b>   | <b>Modul X</b><br><b>Professionalism</b><br><br><b>6 CP (PF) + 2 CP (WF)</b>                      |
|   | <u>Genetic models</u><br>201L (WPF): 1 SWS / 2 CP<br>201P (WPF): 2 SWS / 2 CP                   | <u>Cognitive Neurobiology</u><br>211L (WPF): 2 SWS / 3 CP<br>211P (WPF): 1 SWS / 1 CP    | <u>Spiking Networks</u><br>221L (WPF): 2 SWS / 3 CP<br>221P (WPF): 1 SWS / 1 CP               | <u>Clinical Neuroscience</u><br>241 (WPF): 3 SWS / 4 CP                                | <u>Philosophy and Ethics of Science</u><br>350 Lecture (PF): 2 SWS / 2 CP                         |
|   | <u>Neuroendocrinology/-inflammation</u><br>203L (WPF): 1 SWS / 2 CP<br>203P (WPF): 2 SWS / 2 CP | <u>Macroimaging</u><br>215L (WPF): 2 SWS / 3 CP<br>215P (WPF): 1 SWS / 1 CP              | <u>Spiking Networks</u><br>221L (WPF): 2 SWS / 3 CP<br>221P (WPF): 1 SWS / 1 CP               | <u>Behavioral Pharmacology</u><br>214L (WPF): 2 SWS / 3 CP<br>214P (WPF): 1 SWS / 1 CP | <u>Lab Rotation III</u><br>190 Lab (PF): 3 SWS / 4 CP   |
|   | <u>Neural Signalling</u><br>205L (WPF): 1 SWS / 2 CP<br>205T (WPF): 2 SWS / 2 CP                | <u>Microimaging</u><br>217L (WPF): 1 SWS / 2 CP<br>217P (WPF): 2 SWS / 2 CP              |   | <u>Cognitive Neuroimaging</u><br>242 (WPF): 3 SWS / 4 CP                               | <u>Journal Club/Neurocolloquium</u><br>180 S (optnl.) 2 SWS / 2 CP<br>185 S (optnl.) 2 SWS / 1 CP |
|   | <u>Quantitative signal transduction</u><br>206L (WPF): 1 SWS / 2 CP<br>206P (WPF): 2 SWS / 2 CP |  |   |  |   |

Legend: CP = Credits, SWS = hours per semester week, PF = core course, WPF = elective course, WF = optional course

L = Lecture/Vorlesung, T = Tutorial/Übung, P = Practical or lab work/Laborpraktikum, S = Seminar, LR = Laboratory rotation/Spezialpraktikum