

GTC / External Electives - Computational Neuroscience
Course Plan Winter Term 2026/27 (Oct 12, 2026 - Feb 06, 2027)

Mathematical Basis for Computational Neuroscientists - 2 mandatory meetings: Oct 07 (2-6pm), Oct 08 (9.30am-2pm); location DZNE SR

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8 - 9	Genetic and Molecular Basis of Neural Diseases I Jucker, Gasser et al. <i>LH HNO, LH KIKIi</i>				Model Organisms in Neuroscience Research Hafed et al <i>LH Med small</i>
9 - 10					
10 - 11			Motor Systems <i>Schwarz // (10-12) // L&L 1.205, 1.206</i>		Adv Comp App in TN <i>Giese // 10-12 // HIH SR</i>
11 - 12			Math Basics for CN <i>Häufle // 10-12 // HIH SR</i>		AI for Brain Health <i>Berens, Ritter [see below]</i>
12 - 13	Complex Networks Exercises Levina <i>LH A1 Cyber Valley MVL1</i>	Complex Networks (Lecture) <i>Levina // 12-2pm // LH A1 MVL1</i>		Data-driven Computational Psychiatry Kaufmann <i>SR 4332</i>	Essential Statistics Tutorial <i>Himmelbach et al</i> <i>Online</i>
13 - 14		Essential Statistics <i>Himmelbach // 12-2pm // L&L 1.205+206</i>			
14 - 16	Sensory Systems 1 <i>Reisinger // (2-4pm) // LH HNO</i> Comp. Neuromechanics - Lect. <i>Häufle // (2-4pm) // HIH SR</i> ML for Single-Cell Biology <i>Claassen // (2-4pm) // M3 Inst. 2.208</i>		Deep Learning Lecture <i>Brodt, Luxburg</i> <i>LH N05 AdM 16</i>		Neural Experimental Techniques (2-4pm) <i>Euler et al</i> <i>DZNE SR</i>
16 - 17	Comp. Neuromechanics Exercises <i>Häufle</i> <i>HIH SR</i>				
17 - 18					
18 - 19					
19 - 20					

GTC Elective

GTC CM or NB Mandatory Course

External Elective

AI for Brain Health: tba

Electrophysiology Practical // C. Schwarz et al - one week block course Feb/Mar/Apr - tba (9 places)