

MASTER'S PROGRAMME IN NEUROSCIENCE

2023-26 PROGRAMME STRUCTURE 120 CREDITS (ECTS)

NEU-100 NEUROSCIENCE Obligatory studies (60 credits)
NEU-101 Cellular physiology
NEU-102 Cellular neurobiology
NEU-103 Systems neuroscience
NEU-104 Integrative neurobiology
NEU-105 Methods and trends in neuroscience
NEU-106 Master's seminar in neuroscience
NEU-110 Master's thesis in neuroscience
VIKB-001 Maturity test

NEU-201 CELL AND SYSTEMS PHYSIOLOGY Obligatory studies (65 credits)
NEU-101 Cellular physiology
NEU-203 Systems physiology
NEU-207 Regulatory networks in metabolism *)
NEU-561 Principles of bioscience omics
NEU-205 Methods and trends in physiology and neuroscience
NEU-206 Master's seminar in cell and systems physiology
NEU-220 Master's thesis in cell and systems physiology
VIKB-001 Maturity test

*) Not obligatory for biology teachers

<p>ELECTIVE COURSES AND MODULES (0-60 credits)</p> <p>Each course can be completed separately or compiled into specific study modules of 15-30 credits. In addition, other applicable optional course(s) may be included in each module.</p>

NEU-500 Molecular and Cellular Neuroscience	NEU-550 Sensory Biology
NEU-502 Synaptic signaling and plasticity	NEU-551 Sensory biology
NEU-531 Developmental neuroscience	NEU-552 Sensory performance in animals and humans
NEU-543 Brain slice electrophysiology	NEU-512 Animal models in behavioural neuroscience
PROV-004 Cell and molecular biology methods	NEU-542 Electrophysiological techniques
NEU-510 Systems and Cognitive Neuroscience	NEU-560 Omics
NEU-511 Systems and cognitive neuroscience	NEU-561 Principles of bioscience omics
NEU-512 Animal models in behavioural neuroscience	TMED-915 Introduction to bioinformatics
NEU-520 Neuroscience in Health and Disease	NEU-570 Environmental Physiology
NEU-521 Basic mechanisms of nervous system diseases	BIO-404 Adapted animal
NEU-512 Animal models in behavioural neuroscience	BIO-405 Exposed animal
TMED-406 Translational psychiatry	HNFB-221 Nutrition and society
NEU-530 Development, Regeneration and Ageing	NEU-240 Neuroscience from Cells to Systems
NEU-530 Developmental neuroscience	NEU-102 Cellular neurobiology
NEU-231 Mechanisms of regeneration and aging	NEU-502 Synaptic signaling and plasticity
GMB-305 Stem cells and organogenesis	NEU-512 Animal models in behavioural neuroscience
TMED-202 Regenerative medicine from bench to bedside	NEU-521 Basic mechanisms of nervous system diseases
NEU-540 Electrophysiology and Neurobiophysics	NEU-250 Nutrition and Health
NEU-541 Introduction to neurobiophysics	NEU-251 Molecular nutrition
NEU-542 Electrophysiological techniques	GMB-401 Integrative health biosciences
NEU-543 Brain slice electrophysiology	HNFB-221 Nutrition and society

OTHER GENERAL / ELECTIVE STUDIES 0-60 credits		
Elective courses from neuroscience or other programs / Pedagogical courses for teacher's qualification (60 cr)		
MPHARM-004 Research ethics	NEU-404 Practical training	NEU-415 Creative scientific thinking
NEU-414 Research project	Academic writing	TMED-901 Career development
NEU-603 Laboratory animal science	Statistics and R	SUST-001 Sustainability course