Application

To apply for the study programme, you must hold a bachelor's degree (or equivalent) in either biology, physics, psychology, computer sciences, or a related field. In addition, we require 60 CP in one of the following disciplines:

Zoology, human biology, biopsychology or neuropsychology, biochemistry, cell biology or molecular biology, genetics, statistics/mathematics, medicine/clinical neurology/neuropsychology, physics, chemistry, or closely related fields

English level C1 Common European Framework of Reference for Languages (unless the last academic degree was obtained at a school, in which the primary language of instruction was English)

An essay (Letter of Motivation) explaining why you are choosing this programme and what your research interests are

Deadline for application:
April 30

Further details:
www.masterneuro.uni-bremen.de

Curriculum

The Master of Neurosciences programme is provided by the members of the Center for Cognitive Sciences (Zentrum für Kognitionswissenschaften - ZKW) at the Bremen University, with the participation of the faculties of Physics, Biology/Chemistry, and Human and Public Health Sciences in cooperation with the Bremen hospitals and the Center for Advanced Imaging (CAI). The programme was designed to enable you to perform excellent research by first-class teaching. Close collaboration with other institutes of the University of Bremen, e.g. the Institute of Ecology or the Institute of Biochemistry and Molecular Biology, and our extensive exchange with partner universities all over the world contribute to the rich possibilities of specialising in cutting edge neurosciences. The compulsory modules in the first semester provide basic theoretical knowledge, together with practical skills (programming and laboratory animal sciences) which are essential to the practical modules in the second semester (Advanced Studies I). Here, the students choose three modules from a catalogue of eight advanced studies. In the third semester two six-weeks lab rotations (or hospitation in a clinic) will follow, which can also be performed abroad or in selected institutions in Germany. These courses particularly aim at the consolidation and application of advanced theoretical and practical knowledge and training abilities in the area of experimental design and scientific communication. The studies end with the master's thesis (duration: six months). Courses are given in English.

Curriculum

A total of 120 credit points must be obtained:

Compulsory modules are:

Cellular and Molecular Neurosciences (6 CP)
Systemic Neurosciences (6 CP)
Theoretical Neurosciences (6 CP)
Clinical Neurosciences (Clinical Neuropsychology and Behavioural Neurology) (6 CP)
Complementary Methods in Neurosciences (Laboratory Animal Sciences, Programming - 6 CP)
Master Thesis and Colloquium (30 CP)

Compulsory optional modules are:

Neuro- and Electrophysiology (9 CP)
Neuropharmacology (9 CP)
Experimental Neuroanatomy and Behavioural Physiology (9 CP)
Psychophysics and Human Neurophysiology (9 CP)
Experimental Neuropsychology (9 CP)
Cognitive Psychology and Electroencephalography (9 CP)
Structural and Functional Neuroimaging (9 CP)
Neurophysics and Modelling (9 CP)
Introductory week (9 CP)

Lab Rotation 1 (15 CP)
Lab Rotation 2 (15 CP)

Fields of activity

The neurosciences are among the most fascinating disciplines of life sciences. They combine concepts and methods from biology, chemistry, physics, informatics, medicine, and psychology. Neuroscience research has a tremendous impact on our society, since it deals with the functioning and malfunctioning of the brain - the organ that governs our thinking, feeling and our behaviour.

This interdisciplinary Master Programme will provide you with a broad background in the neurosciences as well as with the possibility to specialise in a subject of your choice. Equipped with the basics of the life sciences, in combination with fundamental theoretical, methodological and practical knowledge in the various fields of neurobiological- and cognitive sciences, you will be qualified for a career in a great variety of science-related occupations. A high flexibility on the labour market is thus guaranteed.

We will educate you to become a critically thinking scientist. Not only will you receive extensive research experience qualifying you for PhD studies and an academic career, but also the scientific, technical and communication skills you will acquire open a wide spectrum of additional opportunities. There are chances to get a job in the industry, e.g. pharmaceutical industry, medical technology, robotics, industrial engineering, biotechnology, and neuro-imaging.

Contact

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Further information:
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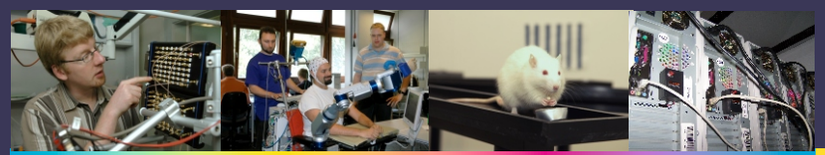
Universität Bremen

Master of Neurosciences



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