

## MASTER'S IN BIOLOGICAL SCIENCES SPECIALIZING IN NEUROSCIENCE

FACULTY OF SCIENCES  
UNIVERSIDAD DE VALPARAÍSO

### AIM

One of the most important challenges that science faces today is understanding how the brain works at different levels of biological complexity. It is therefore not surprising to see the extent to which the research areas that study the nervous system have developed in the past decades. In light of the growing interest in the field of neuroscience, both locally and internationally, the Universidad de Valparaíso has taken the important step of reinforcing graduate academic and research endeavors in this field, so that neuroscientists in training may benefit from learning basic and applied research in diverse areas, such as neurophysiology, neurobiology, computational biology and neurology, neuropsychiatry or neuropsychology, which will contribute to the health and wellbeing of the general population. The Master's program aims to train future neuroscientists, who will be the ones to design and implement experimental strategies that may yield basic results, and which, when applied to issues of clinical importance, could shed light on the organization and functioning of the nervous system.

This Master's program aims to provide fundamental knowledge in neuroscience to professionals interested in the origin, development and normal and pathological functioning of the nervous system, at different levels of biological organization, from molecules to behaviors.

The program is accredited until 2018.

### PROGRAM OF STUDY

First year: core and elective activities and courses, which cover a diversity of topics including the general organization and development of the nervous system, neurophysiology and synaptic transmission, sensory physiology, motor movement and control, neuropathology, experimental methods in neuroscience, research units, and the development of a thesis project.

Second year: Experimental thesis work.

### FINANCIAL AID AND AGREEMENTS

Students accepted into the Program within the first round of selection can apply to CONICYT scholarships. There is also one AUR (regional) scholarship available (see application information at [www.auregionales.cl](http://www.auregionales.cl)).

Top-ranked students holding an undergraduate degree in sciences from the Universidad de Valparaíso and who are accepted into the Master's program can apply for full tuition exemption scholarships.

### ADDITIONAL INFORMATION

#### TERMS

Semester-based

#### DURATION

2 years / 67 credits  
(transferrable credits system -TCS)

#### ADDRESS

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Playa Ancha, Valparaíso

#### WEBSITE

[www.magisterneurociencia.cl](http://www.magisterneurociencia.cl)

