

NEUROSCIENCE

About Neuroscience

Neuroscience is a multidisciplinary science devoted to understanding the nervous system. The brain is one of the most complex systems in the universe, and understanding how it functions is among the most challenging questions in science.

Scientists are investigating the brain at many levels, from the molecules at synapses to complex forms of behaviour, and use methods of inquiry that are drawn from a number of disciplines, including molecular and cellular biology, physiology, behavioural sciences and cognitive psychology, computer science, and artificial intelligence. In addition, scientists are investigating the nervous systems of many different animals, from simple invertebrates to humans.

These wide-ranging investigations are providing a clearer understanding of how neurons work; how they communicate with one another; how they are organized into local or distributed networks; how the connections between neurons are established and change with experience; and how neuronal function is influenced by pharmacological agents and during disease states. As a result, we are gaining deeper insights into the neural basis of mental activity, as well as developing new therapeutic approaches to alleviate neurological and psychological diseases.

Available Programs

- Neuroscience Honours (B.Sc.) (74 credits)
- Neuroscience Major (B.Sc.) (65 credits)
- Neuroscience Minor (B.Sc.) (25 credits)

Location

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