

ISN114
FOUNDATIONS OF NEUROSCIENCE

Unit Description

Foundations of Neuroscience builds further on the structural features and functional principles of the nervous systems introduced in *Biological Foundations of Psychology* and will explore the functional systems related to sensation, perception, and memory. The biological basis of other complex behaviours such as learning, language and intelligence, emotion, reproduction, and aggression will also be examined within this framework. Furthermore, the relationship between neurobiological and psychological dysfunction will also be considered.

Required Textbooks and Readings*

Freberg, L. A. (2018). *Discovering behavioural neuroscience: An introduction to biological psychology* (4th ed). Melbourne, Australia: Cengage

**Textbooks may be subject to change prior to the start of semester*

Administrative Details

Associated higher education awards	Duration	Core or Elective	Level	Unit Coordinator	Other Teaching Staff
Bachelor of Psychology	One semester	Core	First year, Semester 2	Dr Antonina Govic	N/A

Unit weighting as a percentage of the year

Unit credit points	Total course credit points
12.5	400

Student workload

No. timetabled hours per week	No. personal study hours per week	Total workload hours per week
4-hours (1 x 2-hour lecture; 1 x 2-hour face-face workshop)	6-hours	10-hours

Learning Outcomes and Assessments

Learning outcomes for Unit	
I.	Demonstrate and apply an understanding of the underlying concepts and principles of neuroscience and the relationship between brain processes and behaviour
II.	Develop an understanding of key methodologies used for investigating brain and behaviour relationships
III.	Develop basic researching skills by locating and retrieving relevant scientific literature on databases, accurately interpreting experimental findings, and critically evaluating neuroscience literature
IV.	Apply the scientific process as it relates to the field of neuroscience, including testing hypotheses, conducting experiments, and evaluating experiments using mathematics and statistics
V.	Communicate neuroscience theory, research, and results of a scientific study in standard scientific written and oral formats to broad audiences
VI.	Demonstrate effective teamwork and interpersonal skills with classmates in small and large group settings

Overview of Assessment Tasks

Assessment Tasks	Weighting (% of total marks for unit)	Unit Learning Outcomes
Laboratory Report [1,500 words]	35%	I, II, III, IV, V
Tutorial activities [discussions, debates, presentations, tests, and/or quizzes]	25%	I, II, III, IV, V, VI
Examination [120 multiple choice items]	40%	I, II, IV

Delivery mode

Face to face on site; Full-time or Part-time study

Pre-requisites and co-requisites

Pass grade in all Year 1, Semester 1 units

Other Resource and Requirements

None.

**Unit outlines may be subject to change. The most up-to-date outlines will be provided to students once the semester commences*