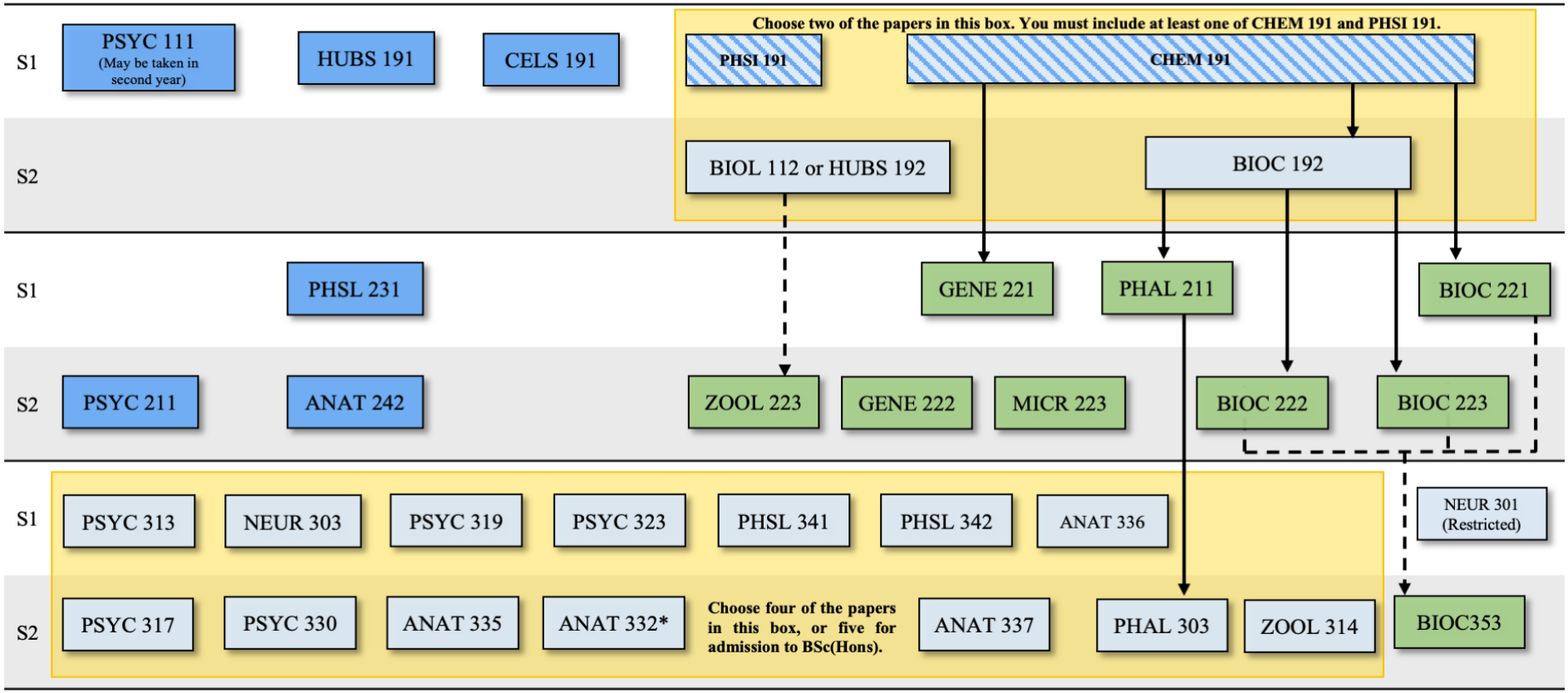
March 2023

NEUROSCIENCE

Te Kaupapa Pūtaiao Io

Neuroscience Major

Neuroscience Programme
neuroscience@otago.ac.nz
www.otago.ac.nz/neuroscience



Prerequisites

- It is assumed that you have passed the major subject requirements in preceding semesters.
- Arrows indicate prerequisites that are not fulfilled by just the major subject requirements. Dashed arrows indicate that more than one paper can serve as the prerequisite.
- For neuroscience students, the prerequisite(s) for:
  - *ANAT 332 is a B+ or better in ANAT 242;
  - PSYC 211 is PSYC 111
  - ZOOL 223 are CELS 191 and (BIOL 112 or (HUBS 191 or 192 with at least a B)).

BSc requirements

A total of 360 points (20 papers) with at least 180 points (10 papers) above 100-level.
Note: No more than three 300-level papers with the same subject code (other than NEUR) may count towards the major subject requirements. Very occasionally, one of these papers may not be on offer in any given year, when a lecturer is on RSL.

Required, Optional, and Recommended Papers for the Neuroscience Major

- Required papers.
- Chosen papers –number that must be taken specified in the yellow boxes (may take more if desired).
- Recommended papers – additional papers that support the neuroscience major (not required).

Considering Postgraduate Study in Neuroscience?

The postgraduate programmes available in neuroscience include: the PGDipSci, BSc(Hons), MSc, and PhD. For BSc(Hons), you must take five 300-level chosen papers. NEUR 301 counts as one of the five and is highly recommended to students with excellent grades who intend to undertake postgraduate study. You can find more information at: www.otago.ac.nz/neuroscience/postgraduate.

Level	Paper Code	Paper Title	Points
100-level	CELS 191	Cell and Molecular Biology	18
	HUBS 191	Human Body Systems 1	18
	PSYC 111	Brain and Behaviour	18
	Either CHEM 191 or PHSI 191	The Chemical Basis of Biology and Human Health Biological Physics	18
	One other paper from: BIOC 192 BIOL 112 HUBS 192 CHEM 191 PHSI 191	 Foundations of Biochemistry Animal Biology Human Body Systems 2 The Chemical Basis of Biology and Human Health Biological Physics	18
200-level	ANAT 242 PHSL 231 PSYC 211	Neurobiology Neurophysiology Brain and Cognition	18 18 18
	BIOC 221 BIOC 222 BIOC 223 GENE 221 GENE 222 MICR 223 PHAL 211 ZOOL 223	Molecular Biology Proteins in Industry and Medicine Cellular Biochemistry and Metabolism Molecular and Microbial Genetics Genes, Chromosomes, and Populations Infection and Immunity Introductory Pharmacology Animal Physiology	
300-level	Four (or 5 for Hons entry) of: ANAT 332 ANAT 335 ANAT 336 ANAT 337 NEUR 303 PHAL 303 PHSL 341 PHSL 342 PSYC 313 PSYC 317 PSYC 319 PSYC 323 PSYC 330 ZOOL 314 NEUR301 (Hons admission)	 Cell Biology Neurobiology Selected Topics in Neurobiology (first semester) Selected Topics in Neurobiology (second semester) Neuroendocrinology Neuropharmacology Molecular, Cellular and Integrative Neurophysiology I Molecular, Cellular and Integrative Neurophysiology II Cognition and Neuropsychology Biopsychology Comparative Cognition Sensation and Perception Drugs, Behaviour, Addiction, and Policy Neurobiology Current Topics in Neuroscience	72
	BIOC 353	Molecular Basis of Health and Disease	
Plus	144 further points; must include 54 points at 200-level or above. Up to 90 points may be taken from outside Science.		144
Total			360

Required papers

Chosen papers

Recommended papers

Contact

Programme Administrator

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