

NATS 2033 CELL FORM AND FUNCTION

Credit Points 10

Legacy Code 301267

Coordinator Gabriel Perrone ([https://directory.westernsydney.edu.au/search/name/Gabriel Perrone/](https://directory.westernsydney.edu.au/search/name/Gabriel%20Perrone/))

Description This unit will develop a comprehensive understanding of eukaryotic cellular components, with an emphasis on animal cells. The unit will focus on distinct functions of organelles/cellular structures, the relevant mechanisms involved, and the broader role of such functions in a whole cell context. The unit will encompass a detailed study of cellular components including: the nucleus, ribosomes, the endoplasmic reticulum, the Golgi apparatus, lysosomes, the plasma and organellar membranes, mitochondria, peroxisomes and the cytoskeleton. This unit will also investigate how organellar function is relevant to an appropriately functioning cell, and how cell dysfunction impacts the cell and leads to disease. The unit covers contemporary techniques used to study cells including: cell culture, advanced cell imaging, a range of investigative and analysis techniques, and additional experimental approaches enabling thorough understanding of the incredibly fascinating yet complex nature of cells.

School Science

Student Contribution Band HECS Band 2 10cp

Check your HECS Band contribution amount via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Undergraduate Level 2 subject

Pre-requisite(s) BIOS 1012

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Item	Length	Percent	Threshold	Individual/ Group Task
Essay: Encompasses elements of a literature review and critical thinking	500 words	10	N	Individual
Practical: Completion and communicative of pre-work, laboratory associated theory and practical work and practical report(s)	Multi-component	40	N	Individual

Final Exam: 2 hours 50 N Individual
Written, combination with multiple choice

Teaching Periods

2022 Semester 1 Campbelltown

Day

Subject Contact Gabriel Perrone ([https://directory.westernsydney.edu.au/search/name/Gabriel Perrone/](https://directory.westernsydney.edu.au/search/name/Gabriel%20Perrone/))

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS2033_22-AUT_CA_D#subjects)

Parramatta - Victoria Rd

Day

Subject Contact Gabriel Perrone ([https://directory.westernsydney.edu.au/search/name/Gabriel Perrone/](https://directory.westernsydney.edu.au/search/name/Gabriel%20Perrone/))

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS2033_22-AUT_PS_D#subjects)