

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 subject will develop a comprehensive understanding of eukaryotic cellular components, with an emphasis on animal cells. The subject 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 subject 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 subject 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 subject 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

Discipline Medical 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

Restrictions

Successful completion of 60 credit points

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.

Type	Length	Percent	Threshold	Individual/ Group Task
Essay	500 words	10	N	Individual
Practical	Multi-component	40	N	Individual
Final Exam	2 hours	50	N	Individual

Teaching Periods

Autumn (2023)

Campbelltown

On-site

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View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NATS2033_23-AUT_CA_1#subjects)

Parramatta - Victoria Rd

On-site

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Autumn (2024)

Campbelltown

On-site

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View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS2033_24-AUT_CA_1#subjects)

Parramatta - Victoria Rd

On-site

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