

# 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 fees via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/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	Mandatory
Essay	Part A: 500 words; Part B 600-1000 words	25	N	Individual	N
Practical Exam	2 hours	25	N	Individual	N
Final Exam	2 hours	30	N	Individual	N
Portfolio	Multi- component	20	N	Group/ Individual	N

Teaching Periods

## Autumn (2025)

### Campbelltown

**On-site**

**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/odd/timetable/?subject\\_code=NATS2033\\_25-AUT\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NATS2033_25-AUT_CA_1#subjects))

### Parramatta - Victoria Rd

**On-site**

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

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