

NATS 7054 PROFESSIONAL TOPIC

Credit Points 10

Legacy Code 301374

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

Description This unit is designed to allow high achieving students to comprehensively explore a relevant topic of interest to them, either through a minor supervised research project or an investigation of an issue directly related to their chosen discipline or a work internship in your chosen discipline. This unit's flexible delivery offers a unique experience specific to each project and student. Students in this unit will develop extensive skills through project-based learning essential for employment and/or higher degree studies.

School Science

Discipline Natural and Physical Sciences, Not Elsewhere Classified.

Student Contribution Band HECS Band 2 10cp

Level Postgraduate Coursework Level 7 subject

Restrictions

Student must have permission from subject Coordinator to enrol in the subject. Students be enrolled in a postgraduate science degree and must have a GPA of 5.0 or above.

Learning Outcomes

On successful completion of this subject, students should be able to:

1. Propose and investigate a topic area relevant to professional practice.
2. Critique peer-reviewed literature pertinent to the proposed topic and identify gaps in knowledge.
3. Design and implement a relevant professional project or a minor research project or industry based project.
4. Justify the results and conclusions of the project by oral and written communication.
5. Devise possible areas of inquiry for future research or development.

Subject Content

The design of this subject is flexible so that it can respond to the special needs of the student and their topic chosen for exploration. The learning activities and resources required will be individually negotiated between the student and their project supervisor. subject content will include:

1. Project-based learning relevant to individual professional goals and available expertise within industry, academia or other relevant body.
2. Critical literature appraisal on topics relevant to the student's project.
3. Experimental design and Project management skills.
4. Analysis of data, using appropriate statistical methods where required.
5. Critical evaluation of data to judge its significance and develop conclusions from these results.
6. Report writing in the form of a scoping paper or research paper or industry project report.
7. Development of poster for presentation of results and conclusions of research project.

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
Proposal	500 words	10	N	Individual
Literature Review OR Critical Review	1000 words	20	N	Individual
Scoping Report OR Applied Research Project OR Industry Project Performance	4000 words	50	N	Individual
Presentation	1000 words or equivalent	20	N	Individual

Teaching Periods

Spring

Parramatta - Victoria Rd

Day

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

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS7054_22-SPR_PS_D#subjects)