

# NATS 7053 MSc RESEARCH PROJECT (EXTENDED)

**Credit Points** 20

**Legacy Code** 301372

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

**Description** This subject extends the research project undertaken in 401156 MSc Research Project into a substantial piece of research work. This subject provides a further opportunity for students to demonstrate that they can consolidate the knowledge acquired through their course of study, understand how existing evidence/information relates to research topics, and how their own work adds to this body of knowledge. The finding of the project will be presented in a thesis and in an oral presentation. On completion of the MSc with this subject, the student should have sufficient research project work to qualify for entry into a PhD program.

**School** Science

**Discipline** Natural and Physical Sciences, Not Elsewhere Classified.

**Student Contribution Band** HECS Band 2 20cp

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** Postgraduate Coursework Level 7 subject

**Co-requisite(s)** NATS 7033

## Restrictions

Student must be enrolled in postgraduate program  
Students must have completed at least 60 credit points of postgraduate study (level 5 or 6) in program 3749 (Master of Science)

## Learning Outcomes

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

1. Propose an investigation into a problem relevant to a scientific discipline and develop research aims
2. Critique peer-reviewed literature pertinent to the investigation and evaluate the strengths and weakness of this work
3. Design and conduct experiments within a project framework to test project aims
4. Analyse the data from experiments and formulate conclusions
5. Justify results and conclusions using oral and written communication
6. Devise possible areas of inquiry for future research or development.

## Subject Content

1. Critical literature appraisal on a selected paper from literature.
2. Experimental design and Project management skills.
3. Analysis of data, using appropriate statistical methods where required.
4. Report writing in the scientific format of a thesis.
5. Critical evaluation of data to judge its significance and develop conclusions from these results.
6. Development of an oral talk for presentation of results and conclusions of research project.

## Special Requirements

Essential equipment

Students must supply standard Personal Protective Equipment (PPE) as appropriate to their discipline and use PPE and engineering requirements as specified by their risk assessment.

## 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
Portfolio	1000 words	30	N	Individual	N
Report	5000 words	50	N	Individual	N
Presentation	5 mins	20	N	Individual	N

Teaching Periods

## Spring (2025)

**Parramatta - Victoria Rd**

### On-site

**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/odd/timetable/?subject\\_code=NATS7053\\_25-SPR\\_PS\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NATS7053_25-SPR_PS_1#subjects))