

# NATS 3039 SCIENCE RESEARCH PROJECT

**Credit Points** 10

**Legacy Code** 300924

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

**Description** Science Research Project is a final-year capstone unit that gives students an introduction to scientific research, while extending their knowledge and practical skills. Each student undertakes a research project supervised by an academic staff member. With the assistance of their supervisor, students will research the literature and define the problem to be studied, carry out a risk assessment, develop the appropriate experimental methods, carry out research on their project, and present a final written report and a poster or oral presentation. This unit offers a challenge to final-year students, and allows innovation by the student with respect to both method and research direction.

**School** Science

**Discipline** Other Natural And Physical Sciences

**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/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 3 subject

**Equivalent Subjects** LGYA 6252 - Science Research Project

**Incompatible Subjects** LGYA 6201 - Science Research Project 2 LGYA 5927 - Chemistry Project 3 LGYB 9720 - Biological Science Project 3 LGYA 3545 - Chemistry Project LGYA 6140 - Biomolecular Science Project

**Restrictions** Students must have successfully completed at least two Level 3 subjects and have a GPA of 5.5 or above. This is an undergraduate project unit; the restrictions above are purposely designed to limit enrolments to a small number of high-performing third year students. Handling large enrolments is not possible in this style of subject.

**Assumed Knowledge**

This subject is aimed at undergraduates in their final year of undergraduate study who have a good grounding in the Level 2 subjects for the discipline area of their individual project.

## Learning Outcomes

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

1. access and review research literature relevant to their project area
2. develop research aims and design experiments to test these aims
3. prepare a risk assessment in the approved UWS format
4. conduct experimental and/or computational work and analyse the data
5. communicate the research results orally and in writing

## Subject Content

1. Identification of project
2. Literature search and review

3. Development of research aims
4. Preparation of a risk assessment in the appropriate format
5. Experimental and/or computational work
6. Preparation of a research report
7. Presentation of a poster

## 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
Risk Assessment: Professional Document	WSU format	0	Y	Individual
Literature Review that includes a Project Proposal: Critical Review	2-3 pages	10	N	Individual
Poster and it oral presentation via an online format	Poster - 10 minutes	25	N	Individual
Report	3,000 words	65	N	Individual

Teaching Periods

## Spring Campbelltown

**Day**

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=NATS3039\\_22-SPR\\_CA\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS3039_22-SPR_CA_D#subjects))

## Hawkesbury

**Day**

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=NATS3039\\_22-SPR\\_HW\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS3039_22-SPR_HW_D#subjects))

## Parramatta - Victoria Rd

**Day**

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=NATS3039\\_22-SPR\\_PS\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS3039_22-SPR_PS_D#subjects))