

# NATS 7040 RESEARCH SKILLS IN SCIENCE

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Legacy Code 401154

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

## Student Contribution Band

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.

## Learning Outcomes

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

1. Demonstrate an understanding and knowledge of research methodologies.
2. Demonstrate an understanding of techniques and skills applicable to scientific study.
3. Critically evaluate current research.
4. Evaluate research methodologies, to develop critiques, and to propose alternative hypotheses.
5. Communicate information and conclusions to specialist and non-specialist audiences.
6. Effectively present scientific and technical information.
7. Demonstrate self-direction in tackling and solving problems.
8. Plan and implement tasks at a professional level.
9. Use ICT to develop and enhance information literacy.
10. Use ICT in the effective and logical handling and analysis of data.
11. Use ICT to communicate and collaborate with other students.
12. Reflect on skills development and on the acquisition of knowledge and understanding.
13. Explain their awareness of health and safety and ethical issues.

## Subject Content

- information literacy skills
- scientific investigation and experimental design
- Analysing scientific data and interpreting results
- presentation skills
- Risk assessment
- developing scientific Projects
- professional skills