

# NATS 1019 SCIENTIFIC LITERACY

**Credit Points** 10

**Legacy Code** 300811

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

**Description** This subject is designed to provide students with scientific literacy, personal and employability skills and attitudes required to successfully undertake science-related undergraduate studies and to prepare for professional life. Students learn, develop and utilise academic and interpersonal methodologies and approaches within the context of applied scientific principles and take responsibility for their own learning and develop a work ethic. Students are introduced to the contestable and uncertain nature of science and the scientific method that underpins academic integrity and ethical behaviour. Activities encourage development of oral and written communication skills, self-confidence, self-efficacy, creative and critical thinking through problem solving, group process, and peer support and assessment. Academic and employability skills include scientific reading and writing, time management, researching scientific information and library skills, oral presentation, taking tests and exams, effective personal and group based learning strategies, and approaches to online learning.

**School** Science

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

**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 1 subject

**Equivalent Subjects** NATS 1018 - Professional Skills for Science  
NATS 1020 - Scientific Literacy (WSTC)

**Assumed Knowledge**

Basic literacy and numeracy.

## Learning Outcomes

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

1. Communicate effectively through a written report that meets the professional standards of scientific discipline
2. Present a structured argument confidently in front of peers, as audience, and assessors
3. Apply the processes of thinking and writing reflectively to develop the ability of reflecting on their learning
4. Develop an understanding of the skills and attitudes required for group work interactions
5. Apply critical thinking to make informed decisions

## Subject Content

1. How to Succeed at University
2. Academic Research: Finding, Assessing, and Referencing Information
3. Writing for Scientists
4. Public Speaking for Scientists
5. Science is Empirical
6. Science is Non-Linear

7. Science is Inductive
8. Science is Falsifiable
9. Academic Integrity and Ethics

## 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
Quiz	10 minutes per lecture	10	N	Individual
Log/ Workbook	Part of each tutorial	10	N	Group
Presentation	Six minutes	25	N	Individual
Report	1,500 words	25	N	Individual
Multiple Choice	60 minutes	30	N	Individual

Prescribed Texts

- Zeegers, P, Deller-Evans, K, Egeegge, S and Klinger, C 2011, Essential skills for science and technology, Oxford University Press, Melbourne. (Provided online)
- subject resource document - written by the development team

Teaching Periods

## Spring (2023) Campbelltown

**On-site**

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=NATS1019\\_23-SPR\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NATS1019_23-SPR_CA_1#subjects))

## Hawkesbury

**On-site**

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=NATS1019\\_23-SPR\\_HW\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NATS1019_23-SPR_HW_1#subjects))

**Hybrid**

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

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=NATS1019\\_23-SPR\\_HW\\_3#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NATS1019_23-SPR_HW_3#subjects))

## Parramatta - Victoria Rd

**On-site**

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

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## Autumn (2024)

### Campbelltown

#### On-site

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

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=NATS1019\\_24-AUT\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS1019_24-AUT_CA_1#subjects))

### Hawkesbury

#### On-site

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### Parramatta - Victoria Rd

#### On-site

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## Spring (2024)

### Hawkesbury

#### Hybrid

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View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=NATS1019\\_24-SPR\\_HW\\_3#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS1019_24-SPR_HW_3#subjects))

### Parramatta - Victoria Rd

#### On-site

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