

NATS 3055 PRACTICUM 1

Credit Points 10

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

Description Practicum 1 will develop your job-readiness in areas of practical skills, problem solving, critical thinking, and teamwork. Working in real-world situations you will apply your knowledge of theory, experimental design, methodology, and analysis, in your discipline area to solving defined problems. The subject will provide you with the opportunity to initially discuss and plan methods to solve a defined problem, and then using laboratory experiments, fieldwork, or other activities relevant to professional practice, to test your approach to the problem.

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/) page.

Level Undergraduate Level 3 subject

Pre-requisite(s) NATS 3044

OR NATS 3045

OR NATS 3053

Equivalent Subjects NATS 3015

Restrictions

Must have successfully completed 120 credit points

Assumed Knowledge

Basic knowledge of scientific methodology

Learning Outcomes

After successful completion of this subject, students will be able to:

1. Employ reflective practice to develop effective professional work practices
2. Develop a methodology to investigate a discipline-specific problem that incorporates ethical, cultural, and sustainability principles
3. Generate measurable outcomes from the investigation of an industry relevant problem
4. Create an accurate and engaging analysis of outcomes from the investigation of an industry-related problem
5. Reflect on Australian Indigenous knowledge and its application in scientific endeavours.

Subject Content

- Reflective practice to improve inter-personal skills and professional development
- Approaches to methodology design
- Effective data management and analysis
- Digital literacy skills and data transformation and reporting
- Legislative frameworks and ethical, cultural, and socio-economic principles as they apply to industry relevant problems

- Australian examples of where Indigenous knowledge is relevant include: fire/land management, traditional remedies, mathematics, astronomy, forensics, ecology, food and agriculture.

Special Requirements

Essential equipment

Laboratory coats & safety glasses may be required.

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
Professional pages	S/U	Y		Individual	Y
Task maximum					
Proposal 1000 words	25	N		Individual	N
Report 2000 words	40	N		Individual	N
Poster 1 page	25	N		Individual	N
Reflection 300 words or equivalent	10	N		Individual	N

Teaching Periods

Autumn (2025)

Campbelltown

Hybrid

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View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NATS3055_25-AUT_CA_3#subjects)

Hawkesbury

Hybrid

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View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NATS3055_25-AUT_HW_3#subjects)

Parramatta - Victoria Rd

Hybrid

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View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=NATS3055_25-AUT_PS_3#subjects)