

NATS 7011 EXPERIMENTAL DESIGN AND ANALYSIS PG A

Credit Points 20

Legacy Code 401266

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

Description Experimental Design and Analysis can be taken independently or in combination in Autumn (Experimental Design and Analysis PG A) and/or Spring (Experimental Design and Analysis PG B) semesters. Working closely with their assigned supervisor(s), students in the health, medical, biomedical and natural sciences will enhance their expertise in experimental methodologies and knowledge of advanced discipline-specific concepts in the first year of the Masters of Research. Completion of one these two units will allow students to demonstrate theoretical and practical skills directly relevant to their proposed research project. Completion of both units will allow students to build upon initial results, and to gain experience in additional methodologies and experimental techniques. These units will also complement the Master of Research core units Research Design 1 and 2, providing a foundation for students to formulate their research question and thesis proposal.

School Science

Discipline Natural and Physical Sciences, Not Elsewhere Classified.

Student Contribution Band HECS Band 2 20cp

Level Postgraduate Coursework Level 7 subject

Co-requisite(s) HUMN 4009 OR
HUMN 4010 OR
HUMN 4012

Incompatible Subjects NATS 7010 - Experimental Design and Analysis PG NOTE Co-Requisite units removed from Spring 2021

Learning Outcomes

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

1. Report the outcome(s) of an experimental and/or research project through the production of data that meets accepted standards in that field of research
2. Describe and report on the integration of experimental and theoretical knowledge at an advanced level through the writing of a research report
3. Communicate research findings to an informed but non-specialist audience
4. Apply the outcomes of the research project to the development of a research question and/or thesis proposal in Year 1 of the Master of Research

Subject Content

1. Research training (advanced skills training appropriate to the field of research)
2. Experimental/research design: planning a research project
3. Interpretation of results
4. Reporting research results

Special Requirements Legislative Prerequisites

Students involved in research work with human subjects will need to consult with supervisors regarding any compulsory training or background checks that might be required.

Note: Corequisite subjects removed from Spring 2021.

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
Report	4,000 words	40	Y	Individual
Presentation	15 min plus 5 min question time	30	Y	Individual
Proposal	Form-based submission (assessment will be based on feasibility of the project)	10	Y	Individual
Participation	Form-based submission	20	Y	Individual

Teaching Periods

Autumn Campbelltown Day

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View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS7011_22-AUT_CA_D#subjects)

Hawkesbury Day

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View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS7011_22-AUT_HW_D#subjects)

Penrith (Kingswood) Day

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View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=NATS7011_22-AUT_KW_D#subjects)

Parramatta - Victoria Rd Day

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