

# University Foundation Studies

# NATS0003 ACADEMIC SKILLS FOR SCIENCE

2022

SUBJECT OUTLINE

Last amended: February 2022

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Subject name	Academic Skills for Science			
Subject number	NATS0003			
Coordinator	Phillip Newman			
Session	2022.1			
Handbook summary	This subject is designed to assist students to become successful, independent and reflective learners. It introduces students to a range of theories and concepts to facilitate the development of practical skills and personal attitudes necessary for success in tertiary study. Emphasis is placed on developing the key competencies of scientific enquiry — collecting, analysing, organising and communicating information as well as solving problems, particularly when related to using mathematical ideas and techniques.			
Credit point value	10			
Prerequisite/s				
Corequisite/s				
Corequisite/s  Subject incompatible wind not to be counted to credit with				
Subject incompatible wand not to be counted to				
Subject incompatible was and not to be counted to credit with				
Subject incompatible with and not to be counted to credit with  Assumed knowledge	Level Z — Non-award preparatory subject			
Subject incompatible wand not to be counted to credit with  Assumed knowledge  Subject level  Attendance	Level Z — Non-award preparatory subject  Students are expected to attend at least 80% of classes. Educational research consistently demonstrates that this attendance level is associated			

6. describe criteria for successful posters and oral presentations and write and evaluate a scientific report.

# **Subject content**

In this subject students will learn about:

- introduction to tertiary study
- blended learning
- advanced tertiary skills
- information skills
- · research methods, including
  - introduction to scientific methods
  - scientific report writing
  - data handling
  - critical reading
  - research and referencing (journal articles), and

writing a research project report.

## Mode of delivery

This subject will consist of a two-hour tutorial session and a one-hour computer lab workshop per week, plus online activities via the subject's vUWS site.

# Online learning requirements

# Essential requirements

### **Essential text**

The College *Academic skills for science student workbook*, Western Sydney University The College, Sydney.

# **Further resources**

To be supplied in class.

# ASSESSMENT ITEMS AND WEIGHTING

Assessment for this subject will be based on the following components:

Task		Weighting	Learning outcomes assessed	Mandatory task
1.	Reflective learning journal – three journal entries, (800–1200 words; approximately 400 words for each journal entry) — 10% each	30%	1, 2, 3, 4, 5 and 6	Yes
2.	Oral presentation — 5 minutes	10%	2, 3 and 6	Yes
3.	Research project report (1000–1200 words):  Part A — Background research related to assigned data (10%)  Part B — Draft hypothesis, aim and proposed methodology (10%)  Part C — Final report (40%)	60%	1, 2, 3, 4, 5 and 6	Yes
то	TAL	100%		

For details of assessment due dates, please refer to the learning guide for this subject.

All marks will be determined in accordance with The College Assessment Policy.

All assessment tasks are mandatory unless otherwise specified. Should a student fail to attempt/submit the first formal assessment task in a subject, they will be deemed to be at risk and will need to follow an intervention plan in order not to receive a Fail Non-Submission (FNS) grade. However, failure to attempt/submit all other mandatory assessment tasks will result in an immediate FNS grade for the subject.

Students must attain a mark of at least 50% overall in order to pass the subject.

Students must keep a copy of all work submitted.

Successful completion of this subject will not be counted for academic credit in any future studies at Western Sydney University.