

Module code: MOD006285		Version: 4 Date Amended: 23/Apr/2024	
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1. Module Title			
Scientific Communication and Professional Skills			

2a. Module Leader			
Mary Bishop Strutt			

2b. School			
School of Allied Health and Social Care			

2c. Faculty			
Faculty of Health, Medicine and Social Care			

3a. Level			
4			

3b. Module Type			
Standard (fine graded)			

4a. Credits			
30			

4b. Study Hours			
300			

5. Restrictions			
Type	Module Code	Module Name	Condition
Pre-requisites:	None		
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:			

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description

Develop essential scientific and professional skills that are required in the bioscience field in general. You'll learn the pre-laboratory work planning and preparation such as health and safety documentations and laboratory experimental design. This also includes the professional skills and training required to operate common laboratory apparatus, such as glassware, microscopy, pH meter, weighing and measuring volumes, pipetting, and spectrophotometer. We'll explore the communication of scientific information in many forms such as laboratory reports, journal articles and presentation skills and related numeracy skills such as SI units, converting between different expression of concentration, and basic statistics.

We'll deliver this module face-to-face, and you'll be expected to attend theory and practical sessions and participate in online study using the Canvas site, internet resources and on-line discussions.

6b. Outline Content

- Preparation for work in a laboratory: Health and Safety and general laboratory conduct.
- Common laboratory apparatus: (e.g. pipettes, laboratory balances, pH meters, microscopes and spectrophotometers).
- Laboratory records and documentation.
- Laboratory reports and data presentation
- Scientific communication and presentation skills
- Data analysis using appropriate summary statistics, t-tests, linear regression, contingency tables
- Generic laboratory calculations (such as different units, concentrations and logarithm)
- Citations and databases

6c. Key Texts/Literature

The reading list to support this module is available at: <https://readinglists.aru.ac.uk/>

6d. Specialist Learning Resources

Face-to-face learning – Laboratory sessions– computer sessions – referencing and library sessions

7. Learning Outcomes (threshold standards)		
No.	Type	On successful completion of this module the student will be expected to be able to:
1	Knowledge and Understanding	Demonstrate the skills necessary to prepare for and carry out laboratory experiments working in a safe and ethical manner.
2	Knowledge and Understanding	Acquire and present scientific information.
3	Intellectual, practical, affective and transferrable skills	Demonstrate skills in using and operating basic laboratory equipment.
4	Intellectual, practical, affective and transferrable skills	Demonstrate skills in analysing data and communication of scientific results.

8a. Module Occurrence to which this MDF Refers				
Year	Occurrence	Period	Location	Mode of Delivery
2026/7	ZZF	Template For Face To Face Learning Delivery		Face to Face

8b. Learning Activities for the above Module Occurrence			
Learning Activities	Hours	Learning Outcomes	Details of Duration, frequency and other comments
Lectures	30	1-4	15 x 2 h lectures
Other teacher managed learning	32	1-4	5 x 3 h lab skills sessions, 4 x 3 h computer sessions, 5 X 1 h tutorials
Student managed learning	238	1-4	Self-directed study
TOTAL:	300		

9. Assessment for the above Module Occurrence

The assessment for some modules includes a presentation (see below for details on how this particular module is assessed). We recognise that presenting, especially to a large group, can cause significant anxiety or distress for some students. If this may affect you, please contact your Module Leader or the Disability and Neurodiversity Service as early as possible. We will work with you to consider appropriate reasonable adjustments. Depending on your individual needs, these might include, for example, presenting to a smaller group or presenting only to a member of academic staff.

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
010	Practical	2	0 (%)	Pass/Fail	100 (%)

Group presentation in semester 1 (equivalent to 2000 words)

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
011	Coursework	1, 3, 4	100 (%)	Fine Grade	30 (%)

Objective Structured Practical Examination (OSPE).

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7*).

In addition, students are required to:

- (a) achieve the qualifying mark for each element of fine graded assessment as specified above
- (b) pass any pass/fail elements

[* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]