

Module Title Practical Skills for Life Sciences	Reference AS1903 SCQF Level SCQF 7 SCQF Points 15 ECTS Points 7.5 Created May 2002 Approved May 2011 Amended September 2004 Version No. 1
Keywords Laboratory Work	

This Version is No Longer Current

The latest version of this module is available [here](#)

Prerequisites for Module

None, in addition to course entry requirements.

Corequisite Modules

None.

Precluded Modules

None.

Aims of Module

To train students in laboratory safety and the basic manipulative skills associated with laboratory work appropriate to their course of study. To enable the accurate recording of experimental procedures, observations, calculations and conclusions.

Learning Outcomes for

Indicative Student Workload

<i>Contact Hours</i>	Full Time
Laboratory Work	30
Tutorials/Seminars	10

<i>Directed Study</i>	
Directed Study	55

<i>Private Study</i>	
Private Study	55

Mode of Delivery

This is a laboratory based module supported by tutorials and on-line exercises.

Assessment Plan

	Learning Outcomes Assessed
Component 1	2,3

Module

On completion of this module, students are expected to be able to:

1. Carry out prescribed experiments accurately and safely.
2. Record experimental observations and results in a meaningful and accurate manner.
3. Perform appropriate calculations and form appropriate conclusions from experimental results.

Indicative Module Content

Fundamental principles of solution chemistry, concentrations, solutions and dilutions. Accurate use of balances and pipettes. Correct and safe use of centrifuges. Titrations. Light microscopy, paper and thin layer chromatography, visible spectrometry.

Component 2	1
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Component 2 is a practical skills test.

Component 1 is written laboratory reports.

Indicative Bibliography

1. *Laboratory Practice and Data Handling Manual*, School of Pharmacy & Life Sciences, Robert Gordon University. Current Issue.
2. LANGFORD, A., DEAN, J.R., REED, R., HOLMES, D., WEYERS, J. and JONES, A., *Practical Practical Skills in Forensic Science*. Current Edition. Pearson Education Ltd.
3. REED, R.H., HOLMES, D., WEYERS, J. and JONES, A., *Practical Practical Skills in Biomolecular Sciences*. Current Edition. Pearson Education Ltd.