

Module Details	
Module Title	Developing Professional Skills 1
Module Code	BIS4003-B
Academic Year	2020/1
Credits	20
School	School of Chemistry and Biosciences
Subject Area	Biomedical Science
FHEQ Level	FHEQ Level 4
Pre-requisites	N/A
Co-requisites	N/A

Contact Hours	
Type	Hours
Online Lecture (Synchronous)	8
Online Tutorials (Synchronous)	12.5
Practical Classes or Workshops	8
Laboratories	12
Directed Study	160.5

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Academic Year

Module Aims
To introduce students to common laboratory techniques in the biomedical sciences. To facilitate the acquisition of core personal transferable skills.

Outline Syllabus

STUDY AND PERSONAL SKILLS: techniques useful to optimise learning from lectures, seminars, tutorials, scientific literature and practical sessions; effective written communication, including note taking, report and essay writing, use of library facilities, presentation skills and , comprehension of scientific literature; time management, self evaluation and reflective practice; IT skills, data presentation; Basic number handling, understanding scientific units, and performing scientific calculations; wellbeing and its impact on student experience.

LABORATORY SKILLS: familiarisation with laboratory facilities, safety aspects, record keeping and report writing, concepts of accuracy and precision, sample preparation and dilutions. Specific techniques used in biomedical sciences: including cell counting methods, light spectrophotometry, balances, pH meter, micropipettes, aseptic techniques for microbiology.

Learning Outcomes

Outcome Number	Description
01	Perform common laboratory techniques, produce scientific reports and communicate scientific information in appropriate formats, work in accordance with laboratory safety protocols.
02	Report, interpret and present data using scientific convention, including; use of correct scientific units and terminology and ability to interconvert units.
03	Recognise the need for effective self-management of workload and resources and be able to practise accordingly; demonstrate personal responsibility for self-directed learning (HCPC standards 1a7, 1a8).
04	Write scientific reports, communicate orally and in writing, be able to comprehend scientific literature, use IT for presentation and perform numerical calculations; apply reflective practice (HCPC standard 2c2).

Learning, Teaching and Assessment Strategy

The module is designed to develop personal, subject specific and transferable skills needed for the course and as a graduate. The module will be delivered as lectures, workshops, laboratory classes and small group tutorials. The module is assessed by coursework and the maintenance of a portfolio. Feedback on work is given in written and oral form in interactive workshops, practical sessions and via personal tutors. The laboratory sessions also provide the opportunity to gain experience in basic scientific techniques, recording and interpreting data, working to deadlines and employing communication skills. There are coursework assignments that develop group work and independent learning, as well as number handling and scientific report writing. The portfolio assesses engagement with the module, and the ability to demonstrate personal organisational skills. The directed study time will allow students to develop their data handling and scientific comprehension skills through appropriate reading and application.

Private study will be facilitated and supported via the use of the VLE which will provide coursework advice and feedback, and revision support.

Reassessment of failed elements will be as per the initial method of assessment. Where reassessment of the laboratory practical element is required, students will be given a data set or an opportunity to complete the laboratory practical on an alternative occasion, whichever is more appropriate.

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Classroom test	Summative Maths Test	1 hour	20%
Summative	Coursework	Comprehension of Scientific Group Presentation Exercise	20 mins	20%
Summative	Coursework	Independent Report on Scientific Literature Comprehension Presentation	N/A	20%
Summative	Coursework	Essay	N/A	20%
Summative	Coursework	Reflective statement	N/A	20%

Reading List
To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.

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