

Developing Professional Skills 1

Module Code:	BIS4003-B
Academic Year:	2018-19
Credit Rating:	20
School:	School of Chemistry and Biosciences
Subject Area:	Biomedical Science
FHEQ Level:	FHEQ Level 4

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	6
Tutorials	18.5
Laboratory	12
Directed Study	163.5

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Academic Year (Sept - May)

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;

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.

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1 Perform common laboratory techniques, produce scientific reports and communicate scientific information in appropriate formats, work in accordance with laboratory safety protocols.
- 2 Report, interpret and present data using scientific convention, including; use of correct scientific units and terminology and ability to interconvert units
- 3 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)
- 4 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 an eportfolio. 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 and involve working in small groups or individually, 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 assess 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 and PebblePad 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	Final Assess'
Formative	Coursework	Laboratory Report	0-1500 words	%	No
Formative	Coursework	Essay under exam conditions	1 hour	%	No
Formative	Coursework	Maths Test	1 hour	%	No
Summative	Coursework	Five Equally weighted individual elements: 1) Summative Maths Test, 2) Laboratory Report, 3) Comprehension of Scientific Literature, 4) Summative Essay under Exam Conditions on a Pre-assigned Topic, 5) ePortfolio	equivalent to 4000 words	100%	Yes

Legacy Code (if applicable)

BM-1105L

Reading List

To view Reading List, please go to [rebus:list](#).