

Laboratory and Study Skills for Clinical Sciences/Medicine

Module Code:	CLS4006-B
Academic Year:	2018-19
Credit Rating:	20
School:	School of Pharmacy and Medical Sciences
Subject Area:	Clinical Sciences
FHEQ Level:	FHEQ Level 4

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	13
Tutorials	22.5
Laboratory	13.5
Directed Study	151

Availability Periods

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

Module Aims

To introduce students to essential laboratory and study skills for Clinical Sciences and related healthcare professions. To develop processes in logical thinking and reflective analysis. To facilitate the development of the basic numeracy skills required by health care professionals.

Outline Syllabus

Laboratory skills: health and safety aspects, record keeping and report writing, observation and analysis, concepts of accuracy and precision, sample preparation and dilutions, pH titrations and simple buffers, use of calibration curves for analytical spectroscopy,

measurement of timed reactions and enzyme kinetics. Anatomical skills. problem-based learning and case studies. SI Units, standard expressions of medication strength and conversion between them. Calculation of ideal body weight and body surface area. Calculation of individualised dosages and drug infusion rates.

Module Learning Outcomes

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

- 1 Show effective practical laboratory techniques and study skills for Clinical Sciences.
- 2 Describe, and convert between, the different units of measurement used in health care.
- 3 Perform essential laboratory techniques.
- 4 Produce scientific and case study reports.
- 5 Express and convert concentrations and perform calculations relevant in health care.
- 6 Think logically in a practical situation.
- 7 Employ study, written communication and numeric skills.

Learning, Teaching and Assessment Strategy

Study and laboratory skills will be delivered through practical classes, workshops, problem-based learning groups, supported by lectures, staff-led tutorials and formative assessments. Practical skills will be assessed via laboratory reports and classroom test, case studies will be assessed via a reflective report and numeracy skills via an examination. During directed study hours, you are expected to undertake relevant reading to consolidate your learning of the syllabus; to prepare for formative assessments, practicals and tutorials; to revise material for summative assessments and to undertake group-work for the problem-based learning case studies.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Laboratory Report	Laboratory Report - Beginning Semester 2	-1200 words	30%	No
Summative	Examination - closed book	Mathematics short answer examination - End of Semester 1	1 hour	25%	No

Summative	Coursework	Reflective case report - End of Semester 2	-800 words	15%	Yes
Summative	Classroom test	Anatomy Spot Test - Mid Semester 2	40 minutes	30%	No

Legacy Code (if applicable)

CS-4003L

Reading List

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