

Module Details	
Module Title	Research Skills
Module Code	CLS6007-B
Academic Year	2024/5
Credits	20
School	School of Pharmacy and Medical Sciences
FHEQ Level	FHEQ Level 6

Contact Hours	
Type	Hours
Directed Study	160
Lectures	2
Practical Classes or Workshops	38

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 2

Module Aims
Students will develop their understanding of and hands on experience with experimental techniques and research methods relevant to modern biological and clinical research. Students will learn to apply these skills to understand a broader range of experimental techniques, published and epidemiological data.

Outline Syllabus
<p>Outline Syllabus The module is structured into six strands</p> <ol style="list-style-type: none"> 1. Laboratory analysis Students will undertake a series of lab classes which are based on current research techniques and methods. 2. Data collection Methods and design relating to collecting using methods such as surveys and interviews 3. Public health and epidemiology Provide an epidemiological perspective to health-related research and enquiry-based learning. 4. Data analysis Qualitative and quantitative statistics. 5. Ethics The process of ethical approval for lab and non-Lab based research and why this is important 6. Data communication How to effectively communicate different types of data to different audiences.

Learning Outcomes	
Outcome Number	Description
01	Undertake and critically evaluate a range of current laboratory techniques.
02	Apply statistical analysis to laboratory and clinical data.
03	Use epidemiological data to describe health, assess causes of disease and evaluate treatments, and understand the principles of public health medicine and health promotion.
04	Critically analyse data using up-to-date experimental techniques.
05	Appreciate the need for research to be conducted ethically.
06	Employ verbal, written, numerical and IT skills to acquire, develop, present and analyse information.
07	Use independent learning skills to research, review and analyse science and health-related literature.
08	Demonstrate an effective self-management of workload, time and resources to gather, critically analyse and describe scientific information.

Learning, Teaching and Assessment Strategy
Each of the strands will be delivered as short units using workshops, and lab sessions. The module will be assessed using written coursework.

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Coursework - Written	Course work - Abstract	50%
Summative	Coursework - Written	Course work - COSHH	50%

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.