

Module Details	
Module Title	MRes Project Part 1
Module Code	LIS7020-E
Academic Year	2024/5
Credits	60
School	Life Sciences (Faculty-wide)
FHEQ Level	FHEQ Level 7

Contact Hours	
Type	Hours
Seminars	12
Tutorials	15
Directed Study	198
Laboratories	375

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

Module Aims
<p>To provide the opportunity for students to:</p> <ul style="list-style-type: none"> - Develop self-direction and originality in the application of knowledge and problem solving. - Develop a comprehensive understanding of appropriate advanced scientific techniques and how those techniques can be used to create and interpret knowledge. - Further develop their analytical, critical analysis, time management and IT skills. - Further develop their awareness of current issues in a research topic of their choice - Work as part of a research team on a real world project.

Outline Syllabus
<p>The majority of the module is laboratory based, with students having specific project areas to investigate in a 6 month time period. Students will cover laboratory methods; COSHH/biological risk assessment; ethical considerations as well as timetabled workshops on health and safety, proteomics, career management, bioinformatics, and simulation technology..</p>

Learning Outcomes	
Outcome Number	Description
01	To critically evaluate published literature in relation to a specific research project and develop an understanding of the project basis.
02	To complete an assessment of potential hazards associated with research activity in your area and document a programme of work.
03	To develop effective science communication skills to contextualise complex scientific theory to a general public audience.
04	To demonstrate a knowledge of the applications of proteomics, bioinformatics, advanced statistical analysis and simulation technology as well as career management

Learning, Teaching and Assessment Strategy
<p>The module develops and enhances students' autonomy in learning. Each student has extensive choice, selecting a topic of interest to be researched from a list of options relevant to their specific programme. Students will join a research team in the University of Bradford to carry out their research. Students meet frequently with their academic supervisor and other researchers who provide individual training and continual formative feedback to the student throughout the project. In addition, students attend workshops on health and safety, career management, proteomics, bioinformatics, and simulation technology, all of which will have short reflections written to include in a comprehensive portfolio of work for submission.</p>

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Coursework - Written	Poster abstract (300 words)	20%
Summative	Coursework - Written	Assessment of laboratory competence and adherence to health and safety regulations Supervisors ini	10%
Summative	Coursework - Portfolio/e-portfolio	Submission of complete portfolio containing workshop problem solving exercises and health and safety regulations	50%
Summative	Coursework - Written	Peer review of a scientific paper (400 Words)	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.