

Research Project – Preparatory Investigations

Module Code:	CFS7022-B
Academic Year:	2018-19
Credit Rating:	20
School:	School of Chemistry and Biosciences
Subject Area:	Chemistry and Forensic Science (ceases 2016)
FHEQ Level:	FHEQ Level 7 (Masters)
Pre-requisites:	
Co-requisites:	Research Skills, Professional Development and Commercial

Contact Hours

Type	Hours
Lectures	4
Seminar	1
Laboratory	120
Directed Study	75

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Semester 2 (Feb - May)

Module Aims

This module builds on the semester 1 module, Research skills, professional development, and commercial awareness. Instruction in further specific research related skills required for the research project will be given, and students will have the opportunity to apply chemical knowledge and laboratory skills in a practical research project. Students will also develop their abilities in providing constructive feedback to their peers.

Outline Syllabus

Students will be introduced to the concept of peer-review, and will provide feedback on a project proposal from one of their peers. Students will commence work on the research

project that they developed in semester 1. Students will: be guided in strategically planning their experimental work (Gantt Chart); carry out all appropriate COSHH assessments for all stages of their practical work; source and access relevant published work; be required to meet with their supervisor regularly to discuss interim reports and to propose the next steps in the project. Instruction will be given by library staff in critical reading of the scientific literature. At the end of the module students will write an introduction to their research project. An interim presentation of results and future work will be given in the form of a poster presentation to staff and peers.

Module Learning Outcomes

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

- 1 Select and use appropriate research equipment without supervision
- 2 Critically evaluate previous work in their area of research
- 3 Critically evaluate a research proposal
- 4 Independently prepare COSHH and related health and safety documentation
- 5 Provide constructive feedback to peers
- 6 Reflect on feedback given by peers
- 7 Present results in a poster presentation

Learning, Teaching and Assessment Strategy

Lectures will be used to deliver background information on the further study skills required to critically engage with the primary literature.

Students are expected to devote 120 hours (10 hours per week) to their research project. This is individual work on an original piece of research. The student is required to work independently on their project, to seek advice or practical help when appropriate, with regular communication with their project supervisor(s).

The student will be allocated a supervisor(s) who will provide practical support and guidance throughout the project in areas such as: data collection, data analysis, discussion, summarising of findings and presentation of results. Additional support will be provided by members of the technical staff. Supervision will be achieved through formal tutorial meetings with your supervisor(s) (6 recommended) and other supervised activities appropriate to the research method employed. Individual supervision will allow the student the opportunity to discuss their ideas, concerns and progress.

Instruction on how to critically engage with the scientific literature will be given by library staff in lectures and workshops.

At the beginning of the module students will peer-review a project plan from one of their colleagues and provide feedback. Students will be graded on the quality and usefulness of

this feedback.

Students will also be asked to reflect on the feedback they receive.

At the end of the module students will submit a literature review for formative assessment. This will then form the introduction of the final dissertation.

An interim report on progress made in the project will be given in the form of a poster presentation.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Presentation	Poster presentation	20 minutes	30%	No
Summative	Coursework	An introduction to the research project – place the students' work in context within the scientific literature	-2000 words	50%	Yes
Summative	Coursework	Provide feedback on a research proposal, reflect on feedback given by peers.	-1000 words	20%	No

Legacy Code (if applicable)

Reading List

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