MS915-10 Essential & Transferable Research Skills- Written Research Proposal

22/23

Department
Warwick Medical School
Level
Taught Postgraduate Level
Module leader
Claire Bastie
Credit value
10
Module duration
10 weeks
Assessment
100% coursework
Study location
University of Warwick main campus, Coventry

Description

Introductory description

The module intends to develop research and professional skills that future employers will look for whether in academia, industry or other professional settings. The module will develop students' analytical and critical skills and provide training on various topics including managing research progress, analysis and presentation. Students will be trained to present research concepts orally and will write a research proposal similar to a grant application.

Module aims

1. To develop students’ ability to critically evaluate the soundness and originality of a research topic.
2. To develop students’ research skills to formulate research ideas, questions and hypotheses and propose
   suitable methodologies to address these.
3. To develop written and oral communication skills, construct coherent arguments and

articulate ideas

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Seminar-like lectures with interactive components and debate will include researching databases; reviewing and rebutting grants and papers, asking a research question; developing contingency plans; composing grants and papers; planning (e.g.; Gantt charts), scheduling; budgeting and publishing (e.g.; prep-prints, open access).

Learning outcomes

By the end of the module, students should be able to:

- Frame appropriate research questions to address complex topics in interdisciplinary science
- Demonstrate originality in producing a research proposal that communicates complex ideas clearly to specialist and non-specialist audiences
- Conduct critical appraisal of scientific concepts

Indicative reading list

Reading lists can be found in Talis

Interdisciplinary

The module allows students to acquire skills (e.g.; appraisal, analytical, oral and written communication) that transfer across the boundaries of any particular module.

Subject specific skills

1. Acquire methods to organise research ideas,
2. Identify and search database, and critically appraise literature
3. Structure and develop a research proposal including a budget associated to research costs.

Transferable skills

Independence & Initiative; Thinking & problem-solving; Written communication; Oral communication; Organization & Time management; Use of tools, technology and software

---

Study

Study time

Type	Required
Lectures	10 sessions of 3 hours (30%)
Assessment	70 hours (70%)
Total	100 hours

Private study description

No private study requirements defined for this module.

Costs

No further costs have been identified for this module.

Assessment

You do not need to pass all assessment components to pass the module.

Assessment group A

	Weighting	Study time	Eligible for self-certification
Assessment component			
Oral presentation of a scientific paper	40%	15 hours	No

(15 min presentation + 5 minutes questions): to demonstrate understanding and critical thinking and develop communication skills using appropriate scientific language.

Reassessment component is the same

Assessment component			
Written Research Grant proposal	60%	55 hours	Yes (extension)

2,000 words: to present complex scientific concepts in a concise manner and demonstrate critical awareness of research techniques . 700 words: to present the justification of resources for the

	Weighting	Study time	Eligible for self-certification
research proposal 250 words: to write a summary of the research proposal in plain English targeted to the non-initiated public			

Reassessment component is the same

Feedback on assessment

Standardized rubrics will be used to mark and provide feedback (including individualized feedback) on the Research proposal and the oral presentation, in line with WMS postgraduate assessment criteria (including submission for plagiarism software). The oral presentation will be double marked. The research grant proposal will be marked and the module lead will moderate marks and feedback. Additional feedback after assessment will be available to students on request. Every student who failed an element of assessment will be offered an appointment with the Module Lead.

Availability

Courses

This module is Optional for:

- Year 1 of TMDA-B91Z Postgraduate Taught Interdisciplinary Biomedical Research