

## MODULE DESCRIPTOR

### Module Title

Research Project In Biomedical Science

Reference	ASM507	Version	1
Created	May 2021	SCQF Level	SCQF 11
Approved	December 2021	SCQF Points	60
Amended		ECTS Points	30

### Aims of Module

To conduct an independent piece of quantitative or qualitative research. Students will demonstrate critical and applied understanding of design, development and execution of research in a particular field of study, critically analyse and report on their data through written and oral means.

### Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Design and implement a plan of work to collect and analyse data on a relevant topic.
- 2 Critically evaluate relevant literature to justify the need for research on a relevant topic.
- 3 Communicate and critically appraise the methods and findings of the research using written communication skills.
- 4 Demonstrate professional competence using oral communication skills to summarise and defend the research.

### Indicative Module Content

Research on a relevant topic, including a literature review, project formulation and experimental design. Student must obtain, record, collate, process, analyse, interpret, present, report and critically evaluate data in a research project, using appropriate qualitative and/or quantitative methods and statistical analysis, in accordance with the research governance framework. Development of practical laboratory skills and/or qualitative research techniques.

### Module Delivery

This is a module devoted to research in Biomedical Science and may involve a wide range of techniques. The module is delivered by contact with an individual supervisor within a biomedical laboratory or the University or industry partner. Research may be undertaken online, for example by systematic review, or questionnaire. There is provision for other staff to be involved in supervision in cases where this would provide expertise to supplement that of the supervisor.

**Indicative Student Workload**

	Full Time	Part Time
Contact Hours	48	48
Non-Contact Hours	552	552
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	600	600
Actual Placement hours for professional, statutory or regulatory body		

**ASSESSMENT PLAN**

If a major/minor model is used and box is ticked, % weightings below are indicative only.

**Component 1**

Type:	Coursework	Weighting:	70%	Outcomes Assessed:	1, 2, 3
Description:	A written thesis				

**Component 2**

Type:	Practical Exam	Weighting:	30%	Outcomes Assessed:	4
Description:	Oral presentation and defence				

**MODULE PERFORMANCE DESCRIPTOR****Explanatory Text**

The module is assessed using the two components of assessment detailed in the Assessment Plan. The y axis (vertical) represents Component 1 (written thesis) weighted as major (70%) and the x axis (horizontal) represents Component 2 (oral presentation and defence), weighted as minor (30%). A minimum of Module Grade D is required to pass the module, with some compensation of grade E in C1 or C2 permitted. Non-submission of either component will result in an NS grade.

		Practical Exam:						NS
		A	B	C	D	E	F	
Coursework:	A	A	A	B	B	B	E	
	B	B	B	B	C	C	E	
	C	B	C	C	C	D	E	
	D	C	C	D	D	D	E	
	E	D	D	D	E	E	E	
	F	E	E	E	E	F	F	
NS		Non-submission of work by published deadline or non-attendance for examination						

**Module Requirements**

Prerequisites for Module	Successful completion of the PgDip Biomedical Science.
Corequisites for module	None.
Precluded Modules	None.

**INDICATIVE BIBLIOGRAPHY**

- 1 Subject-specific literature as advised by the project supervisor; this will include mainly recent journal articles.
- 2 CAMPBELL, M.J. and SWINSCOW, T.D.V., 2009. *Statistics at square one*. 11th ed. Hoboken: Wiley.
- 3 DAVIES, M.B. and HUGHES, N., 2014. *Doing a successful research project: using qualitative or quantitative methods*. 2nd ed. Basingstoke: Palgrave MacMillan.