

## Module specification

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**Refer to the module guidance notes for completion of each section of the specification.**

Module code	SCI638
Module title	Research Project
Level	6
Credit value	40
Faculty	FAST
Module Leader	Dr Ian Ratcliffe
HECoS Code	Forensic Science: 100417 Biomedical Science: 100265 Biochemistry:100344
Cost Code	GAFS

### Programmes in which module to be offered

Programme title	Is the module core or option for this programme
BSc (Hons) Forensic Science	Core
BSc (Hons) Biochemistry	Core
BSc (Hons) Biomedical Science	Core

### Pre-requisites

*None*

### Breakdown of module hours

Learning and teaching hours	19 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	0 hrs
Project supervision (level 6 projects and dissertation modules only)	5 hrs
<b>Total active learning and teaching hours</b>	<b>24 hrs</b>
Placement / work based learning	376 hrs
Guided independent study	0 hrs
<b>Module duration (total hours)</b>	<b>400 hrs</b>

<b>For office use only</b>	
Initial approval date	Nov 2018
With effect from date	01/09/2019
Date and details of revision	14/10/20 Addition of BSc Biochemistry 21/04/21 Addition of BSc Biomedical Science
Version number	3

## Module aims

The purpose of this module is for students to integrate and apply knowledge gained during their degree studies in a self-motivated, practical, enquiring and problem solving manner, thereby extending their own learning to a specific area in applied science. To develop student's practical research expertise and prepare them for postgraduate study/graduate level employment in an area of applied science.

## Module Learning Outcomes - at the end of this module, students will be able to:

1	Plan research project or equivalent advanced scholarship.
2	Collect and critically appraise written scientific information.
3	Critically evaluate experimental information and appropriately set up instrument or research methodology and strategy.
4	Formulate an in-depth understanding of the scientific topic, construct scientific argument and incorporate a critical ethical dimension wherever applicable.
5	Present and defend the research outcomes orally and in writing

## Assessment

Indicative Assessment Tasks:

**Assessment 1:** Project dissertation. This includes a Project Plan which is submitted in advance of the final dissertation. (7000 – 9000 words).

**Assessment 2:** Oral presentation (15 min).

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1-5	Dissertation	80%
2	5	Presentation	20%

## Derogations

N/A

## **Learning and Teaching Strategies**

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Students will receive introductory lectures outlining the aim of the module and giving (generic) guidance on how to carry out the work. Students will also have individual tutorials with their project supervisor to guide their work and ensure appropriate progress is being made. Practical work will be performed by the student under the direction of appropriate staff members.

## **Indicative Syllabus Outline**

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Research, as appropriate, on an agreed topic.

## **Indicative Bibliography:**

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Please note the essential reads and other indicative reading are subject to annual review and update.

### **Essential Reads**

*This will depend on the project. Essential reading is expected to be mainly research papers and, if applicable to the project, case studies and court papers*

### **Other indicative reading**

Kirkup, L. (2012). *Data Analysis for Physical Scientists: Featuring Excel®*. 2nd ed.  
Cambridge: Cambridge University Press

Marder, M.P. (2011). *Research Methods for Science*. Cambridge: Cambridge University Press.

McCormac, C., Davis, J., Papakonstantinou, P. and Ward, N.I. (2012). *Research Project Success: The Essential Guide for Science and Engineering Students*. Cambridge: Royal Society of Chemistry

Leedy, P.D. and Ormrod, J. E. (2012). *Practical Research Planning and Design*. 10th ed.  
New Jersey: Prentice Hall.

## **Employability skills – the Glyndŵr Graduate**

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Each module and programme is designed to cover core Glyndŵr Graduate Attributes with the aim that each Graduate will leave Glyndŵr having achieved key employability skills as part of their study. The following attributes will be covered within this module either through the content or as part of the assessment. The programme is designed to cover all attributes and each module may cover different areas. [Click here to read more about the Glyndwr Graduate attributes](#)

### **Core Attributes**

Engaged  
Creative  
Enterprising  
Ethical

**Key Attitudes**

Commitment

Curiosity

Resilience

Confidence

Adaptability

**Practical Skillsets**

Digital Fluency

Organisation

Leadership and Team working

Critical Thinking

Emotional Intelligence

Communication