# Module specification

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| Module Code | SCI638 |
| --- | --- |
| Module Title | Research Project |
| Level | 6 |
| Credit value | 40 |
| Faculty | FAST |
| HECoS Code | 100962 |
| 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) Forensic Science with Placement Year | Core |
| BSc (Hons) Biochemistry | Core |
| BSc (Hons) Biomedical Science | Core |

## Pre-requisites

SCI557 Research Methods

## Breakdown of module hours

| | |
| --- | --- |
| Learning and teaching hours | 18 hrs |
| Placement tutor support | 0 hrs |
| Supervised learning e.g. practical classes, workshops | 50 hrs* |
| Project supervision (level 6 projects and dissertation modules only) | 6 hrs |
| **Total active learning and teaching hours** | **74** hrs |
| Placement / work based learning | 0 hrs |
| Guided independent study | 326 hrs |
| **Module duration (total hours)** | **400 hrs** |

*Note: in exceptional cases, where a student elects not to do a laboratory based dissertation, this time should instead be dedicated to the process of data collection used such as surveys or literature review.

| For office use only | |
| --- | --- |
| Initial approval date | Nov 2018 |
| With effect from date | 01/09/2019 |
| Date and details of revision | 10/05/2023 AB approval of BSc (Hons) Forensic Science revalidation |
| Version number | |

# Module aims

The purpose of this module is for students to integrate and apply knowledge gained during their degree programme in a self-motivated, practical, enquiring, and problem-solving manner. Students will expand their own learning in a specific area of applied science. The aim of this module is to develop their skills in practical research and research methods in preparation for postgraduate study/graduate level employment.

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

| | |
|---|---|
| 1 | Demonstrate an ability to assess risks and consider ethical implications in research. |
| 2 | Collect and critically appraise written scientific information. |
| 3 | Critically evaluate experimental information and appropriately set up instrument or research methodology and strategy. |
| 4 | Interpret and appraise collected data sets. |
| 5 | Make appropriate use of statistical or other data analysis methods. |
| 6 | Present and defend the research outcomes orally. |

# Assessment

**Indicative Assessment Tasks:**
This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

**Assessment 1** – Portfolio
Students will demonstrate their ability to assess risks and consider ethical concerns relating to their chosen project.

**Assessment 2** – Dissertation (~6000 words)
Students will write a dissertation on their chosen topic.

**Assessment 3** – Presentation (~20 minutes).
Students will present their research during a conference style event. The time allocated will include up to 5 minutes of questions.

| Assessment number | Learning Outcomes to be met | Type of assessment | Weighting (%) |
|---|---|---|---|
| 1 | 1 | Portfolio | Pass/Refer |
| 2 | 2-4 | Dissertation/Project | 75% |
| 3 | 5-6 | Presentation | 25% |

# Derogations

None.

## Learning and Teaching Strategies

Students will receive introductory lectures expanding their knowledge in research methods. Students will 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

- Selecting a research topic
- Experimental design
- Research ethics
- Risk assessing and COSSH

- Time management
- Critical writing
- Statistics
- Presenting research

## Indicative Bibliography:

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**

Field, A. (2017), *Discovering statistics using IBM SPSS statistics*, London: Sage Publishing.

Pallant, J. (2020), *SPSS survival manual: A step by step guide to data analysis using IBM SPSS*, Berkshire: Open University Press.

Machi, L.A. & McEvoy, B.T. (2016), *The Literature Review: Six Steps to Success*. California: Cowin Press:

Thomas, G. (2022), *How to do your Research Project: A Guide for Students,* London: Sage Publishing.

## Employability skills – the Glyndŵr Graduate

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.

**Core Attributes**
Engaged
Enterprising
Creative
Ethical

**Key Attitudes**
Commitment
Curiosity
Resilience
Confidence
Adaptability

**Practical Skillsets**
Digital Fluency
Organisation
Leadership & Team working
Critical Thinking
Emotional Intelligence
Communication