Skills and Perspectives in Science 1

Module Information

2022.01, Approved

Summary Information

Module Code	3401FNDSCI
Formal Module Title	Skills and Perspectives in Science 1
Owning School	Biological and Environmental Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 3
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Biological and Environmental Sciences

Learning Methods

Learning Method Type	Hours
Lecture	33
Tutorial	5
Workshop	22

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	To enable students to develop a range of academic, research and transferable skillsrelated to their programme of study.To cover a selection of topical subjects in biology, chemistry andrelated areas of natural sciences.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Demonstrate an understanding of selected topical issues in biology, chemistry and other natural sciences.
MLO2	2	Recognise scientific approaches and how to apply them in order to solve problems.
MLO3	3	Convert raw data to results, apply appropriate descriptive statistics and present data in suitable graphical and tabular form.
MLO4	4	Demonstrate familiarity with basic IT software to produce documents, spreadsheets and presentations of an appropriate standard.

Module Content

Outline Syllabus	A series of lectures in chemistry, biology and other natural science topics. The range of subjects covered will be varied to reflect the interests of individual staff members.Written communication: report writing, reviewing scientific literatureNumerical reasoning: data handling and presentation (e.g. graphs, maps, databases, big data) and descriptive statistics (normality testing, mean, SD, median and mode, etc.). Logs, mathematical functions, formulae.Information literacy & ICT skills: Canvas, tabulation, graphics, email, internet, images, hyperlinks, presentation software, analytical software, big data, machine learning/AI concepts.
Module Overview	This module aims to develop your basic knowledge and research skills and covers scientific perspectives, writing, data handling and statistical analysis.
Additional Information	This module aims to develop the basic knowledge and research skills of students on Natural Science programmes. Areas covered include scientific perspectives, writing, data handling and statistical analysis.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Test	Phase Test on Perspectives	40	0	MLO1
Portfolio	Data Analysis Portfolio	50	0	MLO2, MLO3, MLO4
Portfolio	Tutorial Exercises	10	0	MLO1, MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Mark Feltham	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings