Liverpool John Moores University

Title:	DATA PRESENTATION AND ANALYSIS
Status:	Definitive
Code:	**3005FNDSCI** (119256)
Version Start Date:	01-08-2016
Owning School/Faculty:	Natural Sciences & Psychology
Teaching School/Faculty:	Sciences

Team	Leader
Mark Feltham	Y
Philip Denton	

Academic Level:	FHEQ3	**Credit Value:**	24	**Total Delivered Hours:**	50
Total Learning Hours:	240	**Private Study:**	190		

Delivery Options
Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	20
Tutorial	10
Workshop	20

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	Skills	Tutorial Work	30	
Report	Analysis	Descriptive Stats Report	30	
Test	Data	Data presentation: Stats & XL	40	

Aims

To enable students to develop a range of academic, research and transferable skills related to their programme of study.

Learning Outcomes

After completing the module the student should be able to:

1	Perform mole calculations involving the Avogadro constant and atomic/molecular masses and calculate reacting masses/volumes from balanced equations
2	recognise scientific approaches and how to apply them in order to solving problems.
3	convert raw data to results, apply appropriate descriptive statistics and present data in suitable graphical and tabular form.
4	Demonstrate familiarity with basic IT software to produce documents, spreadsheets and presentations of an appropriate standard.
5	To develop a range of transferable skills in order to fully exploit learning opportunities in the field of scientific research at University and beyond.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Tutorial Work	2	5	
Descriptive Stats Report	2	3	4
Data presentation: Stats & XL	1	2	

Outline Syllabus

Written communication: report writing, reviewing scientific literature
Numerical reasoning: data handling and presentation (e.g. graphs, maps, databases) and descriptive statistics (normality testing, mean, SD, median and mode, etc.).
Logs, mathematical functions, formulae.
Information literacy & ICT skills: Blackboard, tabulation, graphics, email, internet, images, hyperlinks, presentation software, SPSS, eportfolio.
Personal planning & organizing: time management: skills auditing and skills development, target setting, action planning, using feedback.
Problem solving: the nature of scientific enquiry, the Scientific Method, experimental design, hypothesis testing.

Learning Activities

Computer-aided learning, lecture and tutorial work.

Notes

Module will be taught predominately through bespoke support material provided online and via learning activities below