University of the West of England
BRISTOL

CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data						
Module Title	Managing Numerical Data					
Module Code	UZYRGT-15-0		Level	0	Version	1
Owning Faculty	Health and Applied Sciences		Field	Allied Health Professions		
Contributes towards	Foundation Programme for Health Professions					
UWE Credit Rating	15	ECTS Credit Rating	7.5	Module Type	Standard,	
Pre-requisites	None		Co- requisites	None		
Excluded Combinations	None		Module Entry requirements	None		
Valid From	September 2014		Valid to	September 2020		

CAP Approval Date	29/05/2014

Part 2: Learning and Teaching	
Learning Outcomes	On successful completion of this module students will be able to: • Demonstrate an understanding of mathematical language and representation (Component A) • Demonstrate an understanding of Geometry, Trigonometry and Algebra. (Component A) • Collect, organise, represent and interpret data. (Component A & B) • Interpret graphical information. (Component A & B) • Perform mathematical calculations and solve mathematical problems. (Component A & B) • Utilise and apply a range of mathematical techniques to solve problems. (Component A & B) • Organise and clearly present relevant information to suit purpose. (Component A & B) • Demonstrate and apply a range of numeracy skills accurately and appropriately. (Component A)
Syllabus Outline	**Number**

	Calculations including ratio, percentages, decimals and fractions The results of calculations Place value and round numbers to a stated accuracy Appropriate levels of accuracy to express an answer Metric and imperial system of units Numerical values into simple formulae Addition, subtraction, multiplication and division using algebraic terms Graphs Interpret and sketch graphs **Handling Data** Organise discrete and continuous data into groups and classifications Methods of data collection and bias Charts and graphs, e.g. bar charts, pie charts, line graphs, scatter graphs and cumulative frequency graphs Charts and graphs, explaining the main features of the data represented Mean, median and mode from lists, ungrouped and grouped frequency tables Range and interquartile range Probability of a single event and two events occurring Probability and relative frequency of an event occurring **Shape, Space and Measures** Triangles, quadrilaterals and other polygons 3D shapes and recognise simple nets Angles in 2D shapes and deduce size using e.g. angles in a straight line, angles around a point and opposite, alternate and corresponding angles Perimeters, areas, surface areas and volumes of simple shapes and solids Scale drawings and calculate measurements using similar shapes Reflections, translations, enlargements and rotations Pythagoras' theorem and sin, cos, tan in right-angled triangles Cosine and sine rule in non-right angled triangles **Further Algebra** Simple linear equations Change the subject of a formula Simplify expressions including using factorisation and the rules of indices Graphs of algebraic functions Formula y = mx + c to calculate the values of m and c from a graph or table of data Simultaneous equations containing two variables Quadratic equations of the form $x^2 + ax + b = 0$ Algebraic equations using a 'trial and improvement' method
Contact Hours	Contact time for the module is 100 hours. This subject requires intensive coaching for some students often in one to one or small group situations.
Teaching and Learning Methods	A variety of Learning and Teaching methods will be used which will include: lectures, seminars, workshops and formative mock papers and feedback.

Key Information Sets Information	**Key Information Set - Module data** *Number of credits for this module*: 15 Hours to be allocated: 150 | Scheduled learning and teaching study hours: 100 | Independent study hours: 50 | Placement study hours: 0 | Allocated Hours: 150 Total assessment of the module: Written exam assessment percentage: 100% Coursework assessment percentage: 0% Practical exam assessment percentage: 0% 100%
Reading Strategy	Students will be directed to reading which is either available electronically or in paper format. They will also be expected to read more widely by identifying relevant material using the Module Handbook, the LRC and resources such as those listed below:
Indicative Reading List	http://www.bbc.co.uk/skillswise/maths In addition, various materials regarding communication including City of Bristol College-generated packs and Open University booklets.

Part 3: Assessment	
Assessment Strategy	Assessment strategy: Component A: 1 x 1.5 hour exam Component B: 1 x 1.5 hour exam . This is informed by evidence from GCSE mathematics (this is the level taught on this programme) which indicates that 'coursework' does not fully assess mathematical skills and does not represent a fair reflection of students' ability in this subject. Two 1.5 hour exams allow functional skills assessment in the form of evidence of mathematical development and application. Regular formative assessment will take place throughout the module delivery to enable students to gauge their progress and learning to date.

Identify final assessment component and element	Component B	
% weighting between components A and B (Standard modules only)	**A:** **50**	**B**: **50**

First Sit	
Component A (controlled conditions) **Description of each element**	**Element weighting** **(as % of component)**
1. Exam (1.5 hour)	100
2	
Component B **Description of each element**	**Element weighting** **(as % of component)**
1. Exam (1.5 hour)	100

Resit (further attendance at taught classes is not required)	
Component A (controlled conditions) **Description of each element**	**Element weighting** **(as % of component)**
1. Exam (1.5 hour)	100
Component B **Description of each element**	**Element weighting** **(as % of component)**
1. Exam (1.5 hour)	100
If a student is permitted an **EXCEPTIONAL RETAKE** of the module the assessment will be that indicated by the Module Description at the time that retake commences.	