



### MODULE SPECIFICATION

Part 1: Information			
Module Title	Foundation Statistics		
Module Code	UFMFDG-15-0	Level	Level 3
For implementation from	2018-19		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Engineering, Design and Mathematics
Department	FET Dept of Engin Design & Mathematics		
Contributes towards	Mathematics with Qualified Teacher Status (QTS) {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19 Mathematics and Statistics {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19 Mathematics and Statistics {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19 Mathematics {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19 Mathematics {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

### Part 2: Description

**Educational Aims:** See Learning Outcomes.

**Outline Syllabus:** Introduction to Minitab; data entry, descriptive and graphical representations of data, simulation of data and probability distributions, fitting statistical models.

Discrete and continuous probability distributions including the binomial and normal.

## STUDENT AND ACADEMIC SERVICES

Sampling distributions, estimation including Confidence Intervals.

Hypothesis testing: Z-tests, Chi-square tests for contingency tables and goodness of fit.

Correlation and regression.

**Teaching and Learning Methods:** Scheduled teaching hours will take the form of:

On alternative weeks: Two hours lecture/workshop in a computer lab and a one hour lecture/tutorial in a classroom.

Contact time 36 hours

Assimilation and development of knowledge 72 hours

Assessment 42 hours

TOTAL 150 HOURS

### Part 3: Assessment

The examination tests the students' ability to use software to implement solutions to short statistical problems under controlled conditions.

The coursework is both summative and formative, and assesses the student's ability to apply computer based solutions to statistical problems that arise in an investigation and will require ability to present information in a clear and concise way.

First Sit Components	Final Assessment	Element weighting	Description
Written Assignment - Component B		75 %	Investigation
Examination - Component A	✓	25 %	Computer lab based examination (2 hours)
Resit Components	Final Assessment	Element weighting	Description
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Examination - Component A	✓	25 %	Computer lab based examination (2 hours)

STUDENT AND ACADEMIC SERVICES

<b>Part 4: Teaching and Learning Methods</b>																			
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Reading List	<p>The reading list for this module can be accessed via the following link:</p> <p><a href="https://uwe.rl.talis.com/modules/ufmfdg-15-0.html">https://uwe.rl.talis.com/modules/ufmfdg-15-0.html</a></p>																		