

No Co-requisite modules listed

No requirements listed

MATH C1712: Basic Mathematics

	University					
Module Title:		Basic Mathematics				
Language o	of Instruction:	English				
Credits:	5					
oreuns.]3					
NFQ Level:	6					
Module Del	ivered In	4 programme(s)				
Teaching & Strategies:	Learning	This module will be delivered using a learner-centred approach with a strong emphasis on the practical use of mathematics in day-to-day agriculture. A variety of teaching and learning strategies will be used such as lecture, computer practical, workshop and classroom assessment techniques. A responsibility for learning will be fostered in the learners. To develop confidence, class participation will be encouraged and collaborative work will be instrumental in nurturing team building amongst the group. Special attention will be paid, not only to the 'How' of mathematics, but also the 'Why?' so that learners see the real relevance, importance and utility of studying this subject to their future work in agriculture. Lecture Computer Practicals Case-studies Group discussions and group activities				
Module Ain	1:	The module aims to provide the learner with a solid understanding of the mathematics that they will be using in their future work in agricultural production. This basic grounding will also facilitate and complement understanding of other subjects in their programme that require an understanding of mathematics.				
Learning O	utcomes					
On success	ful completion of	this module the learner should be able to:				
LO1 Perform basic, scientific and business calculations with applications in farming and farm development.						
LO2	Compute area	s and volumes of farm structures and feed stores.				
LO3 Analyse, present		ent and interpret statistical data.				
LO4	Demonstrate an ability to use computer and mobile device software to perform calculations such as rations, farm inputs an outputs.					
Pre-requisi	te learning					
	Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recomme	endations listed					
Incompatib These are m		ave learning outcomes that are too similar to the learning outcomes of this module.				
No incompa	tible modules lis	ted				
Co-requisite Modules						

Requirements
This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.



MATH C1712: Basic **Mathematics**

Module Content & Assessment

Indicative Content

Basic Mathematics

· Arithmetic, exponents, percentages, logarithms, scientific notation and measurement systems.

Use of Mathematics

· Ratio and proportion, percentage strength calculations and business ratios

Basic Statistics
• Present data in tabular and graphical form and calculate and interpret measures of central tendency and dispersion.

Calculating Areas and Volumes

Calculate simple areas and volumes using geometry and trigonometry.

Use of Computers in Practical Farming
• Computing – use of computers for all of the above.

Assessment Breakdown	%
Continuous Assessment	60.00%
End of Module Formal Examination	40.00%

Continuous Assessment					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Other	In-Class assessments	1,2,3,4	30.00	n/a	
Practical/Skills Evaluation	Computer practicals	1,2,3,4	20.00	n/a	
Case Studies	Case Studies in use of computers and calculators. Demonstrations and Group Discussion	1,2,3	10.00	n/a	

П		
П	I N. B. C. H	
П	No Project	

No Practical

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Terminal Examination	1,2,3,4	40.00	End-of-Semester

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



MATH C1712: Basic Mathematics

Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	12 Weeks per Stage	2.00
Practicals	12 Weeks per Stage	1.00
Independent Learning	12 Weeks per Stage	3.00
	Total Hours	72.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_SWOAG_B	Bachelor of Science (Honours) in Organic Agriculture	1	Mandatory
CW_SWSFM_B	Bachelor of Science (Honours) in Sustainable Farm Management and Agribusiness	1	Mandatory
CW_SWOAG_D	Bachelor of Science in Organic Agriculture	1	Mandatory
CW_SWSFM_D	Bachelor of Science in Sustainable Farm Management and Agribusiness	1	Mandatory