

Co-requisite Modules

No Co-requisite modules listed

No requirements listed

MATH H1720: Basic Mathematics

| | 7 | University | | | |
|---|--|--|--|--|--|
| Module Title: | | Basic Mathematics | | | |
| Language of Instruction: | | English | | | |
| Credits: 5 | | | | | |
| NFQ Level | : 6 | | | | |
| Module De | elivered In | No Programmes | | | |
| Teaching & Learning Strategies: | | 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 Aim: | | 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 (| Outcomes | | | | |
| On succes | sful completion | of this module the learner should be able to: | | | |
| LO1 | Perform bas | ic, scientific and business calculations with applications in farming and farm development. | | | |
| LO2 | Compute ar | eas and volumes of farm structures and feed stores. | | | |
| LO3 | Analyse, pre | esent 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-requis | ite learning | | | | |
| Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module. | | | | | |
| No recomm | No recommendations listed | | | | |
| | Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module. | | | | |
| No incomp | atible modules | isted | | | |

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



MATH H1720: 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 H1720: Basic Mathematics

Module Workload

| Workload: Full Time | | |
|----------------------|-----------------------|---------------------------------------|
| Workload Type | Frequency | Average Weekly Learner Workload |
| Lecture | 30 Weeks per Stage | 1.00 |
| Practicals | 30 Weeks per Stage | 0.50 |
| Independent Learning | 30 Weeks per Stage | 1.83 |
| | Total Hours | 100.00 |