

CK101 BA (HONS) SUBJECT - APPLIED MATHEMATICS

Programme Requirements

Code	Title	Credits
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Year 1 - for students who did not progress to Second Year in 2025/26

Students take **15** credits as follows:

Core Modules

AM1052	Introduction to Mechanics	5
AM1053	Introduction to Mathematical Modelling	5
AM1054	Mathematical Software	5

Year 2

30-Credit Subject

Students take **30** credits as follows:

Core Modules

AM2052	Mathematical Modelling	5
AM2060	Object Oriented Programming with Applications	5
AM2071	Transform and Variational Methods	5
MA2071	Multivariable Calculus	5
MS2005	Discrete Mathematics	5
MS2013	Geometry	5

Year 3

30-Credit Subject

Students take **30** credits as follows:

Core Modules

AM3051	Vector and Tensor Methods	5
AM3052	Introduction to Fluid Mechanics and Wave Theories	5
AM3063	Partial Differential Equations with Applications I	5
AM3064	Topics in Applied Mathematics	5
AM3065	Dynamical Systems and Bifurcation Theory	5
AM3090	Applied Mathematics Literature Review	5

Notes:

- Students taking Applied Mathematics in First Arts must also take Mathematics MA1055 Mathematics (Honours).
- Students who achieve at least 55% in both Applied Mathematics and Mathematics in First Arts may be eligible to apply for transfer to Science in the College of Science, Engineering and Food Science (full details available from the College of Science, Engineering and Food Science).
- Students who register for Applied Mathematics and Mathematics should select either ST1051 Introduction to Probability and Statistics or MF2050 Discrete Time Financial Models instead of MA2071 Multivariable Calculus (In general the same module should not be selected for both Mathematics and Applied Mathematics).

Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.