

CK101 BA (HONS) SUBJECT - APPLIED MATHEMATICS

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*.

Overview

See information on Timetable Groups and Subject Combinations on the BA (Hons) - CK101 (<https://ucc-ie-public.courseleaf.com/programmes/ba/>) page.

Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p. 1).

Programme Requirements

Code	Title	Credits
Year 1		
Students take 15 credits as follows:		
<i>Core Modules</i>		
AM1052	Introduction to Mechanics	5
AM1053	Introduction to Mathematical Modelling	5
AM1054	Mathematical Software	5
Year 2		
<i>30-Credit Subject</i>		
Students take 30 credits as follows:		
<i>Core Modules</i>		
AM2052	Mathematical Modelling	5
AM2060	Object Oriented Programming with Applications	5
AM2071	Fourier Methods	5
MA2071	Multivariable Calculus	5
MS2005	Discrete Mathematics	5
MS2013	Geometry	5
Year 3		
<i>30-Credit Subject</i>		
Students take 30 credits as follows:		
<i>Core Modules</i>		
AM3051	Vector and Tensor Methods	5
AM3062	Optimisation and the Calculus of Variations	5
AM3063	Partial Differential Equations with Applications I	5
AM3064	Computational Techniques	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