MODULE SPECIFICATION

**SECTION 1: MODULE SPECIFICATIONS**

1. Title of the module : Mathematical Workshops (MA026)
2. School or partner institution which will be responsible for management of the module

School of Mathematics, Statistics and Actuarial Science (SMSAS)

1. Start date of the module : last revised September 2004 (revised version start date September 2014)
2. The number of students expected to take the module: 30
3. Modules to be withdrawn on the introduction of this proposed module and consultation with other relevant Schools and Faculties regarding the withdrawal

None

1. The level of the module (e.g. Certificate [C], Intermediate [I], Honours [H] or Postgraduate [M]): Foundation [F]
2. The number of credits and the ECTS value which the module represents : 30 credits (15 ECTS)
3. Which term(s) the module is to be taught in (or other teaching pattern): Autumn and Spring terms
4. Prerequisite and co-requisite modules:

Co-requisite modules :- Algebra and Arithmetic (PH020), Calculus (EL021), Graphs Geometry and Trigonometry (MA022), Additional Mathematics (MA024), Foundation Statistics (MA025)

1. The programmes of study to which the module contributes

BSc (Hons) Mathematics with a Foundation Year

1. The intended subject specific learning outcomes

On successful completion of this module students will:

1. have acquired an easy and accurate facility with elementary calculation (with and without a calculator);
2. have acquired an easy and accurate facility with basic algebra;
3. be competent in applying standard tools and techniques from calculus, co-ordinate geometry and trigonometry to problem solving;
4. have a mathematical proficiency suitable for Stage 1 entry.
5. The intended generic learning outcomes

On successful completion of this module students will have:

1. progressed their problem formulating and solving skills;
2. enhanced their capacity to communicate mathematical statements and conclusions, both symbolically and literally;
3. established learning and time management skills requisite for Stage 1 study
4. A synopsis of the curriculum

Activity is centred on worksheet sessions designed to reinforce understanding of topics introduced in the co-requisite modules, and to promote facility with problem solving techniques and tools introduced there.

1. Indicative Reading List

Core Maths for Advanced Level, L Bostock and S Chandler, Nelson Thornes Ltd, ISBN 0 7847 55098

Foundation Maths, A Crofton and R Davison, Addison Wesley Longman Ltd, ISBN 0 201 178044

Foundation Mathematics, D Booth, Addison Wesley Longman Ltd, ISBN 0 201 342944

Foundation Mathematics, L Mustoe and M Barry, John Wiley & Sons Ltd ISBN 0471 970421

Introductory Statistics, P S Mann, John Wiley & Sons Ltd, ISBN 0471 373532

1. Learning and Teaching Methods, including the nature and number of contact hours and the total study hours which will be expected of students, and how these relate to achievement of the intended module learning outcomes*.*

Number of contact hours: 52

Number of independent learning hours: 248

Total study hours: 300

A problem worksheet is used as the basis of the activity for each Workshop session. These worksheets are designed to bolster and support the knowledge and understanding of the co-requisite modules, as well as introducing relevant new material. The content and ordering of the syllabus will reflect this principle. The theme for each session is introduced by the lecturer and some sample problems are worked before the whole class. In the balance of the time available students separately work problems, consulting the lecturer as they need to. The lecturer monitors individual work. Solutions to any worksheet problems are not done in class but are completed in the student’s own time.

Subject specific learning outcomes 11(a)-(d) and generic learning outcomes 12(a)-(c) will be addressed by the workshops and problem worksheets.

1. Assessment methods and how these relate to testing achievement of the intended module learning outcomes

The module will be assessed by an end-of-year class test (30%), termly class tests (20%) and coursework (50%)

Coursework: This will normally involve eight written assignments and will assess learning outcomes 11(a)-(c) and 12(a)-(c)

Termly Class Tests: There will normally be a class test towards the end of each of the Autumn and Spring terms to assess learning outcomes 11(a)-(d) and 12(a)-(c).

End-of-Year Test: This will be a two hour class test conducted under examination conditions in the Summer Term. It will assess learning outcomes 11(a)-(d) and 12(a)-(c).

1. Implications for learning resources, including staff, library, IT and space

None- existing module.

1. The School recognises and has embedded the expectations of current disability equality legislation, and supports students with a declared disability or special educational need in its teaching. Within this module we will make reasonable adjustments wherever necessary, including additional or substitute materials, teaching modes or assessment methods for students who have declared and discussed their learning support needs. Arrangements for students with declared disabilities will be made on an individual basis, in consultation with the University’s disability/dyslexia support service, and specialist support will be provided where needed.
2. Campus where module will be delivered: Canterbury

**SECTION 2: MODULE IS PART OF A PROGRAMME OF STUDY IN A UNIVERSITY SCHOOL**

**Statement by the School Director of Learning and Teaching/School Director of Graduate Studies (as appropriate):** "I confirm I have been consulted on the above module proposal and have given advice on the correct procedures and required content of module proposals"

|  |  |
| --- | --- |
| ................................................................Director of Learning and Teaching/Director of Graduate Studies (delete as applicable)…………………………………………………Print Name | ..............................................Date |

**Statement by the Head of School:** "I confirm that the School has approved the introduction of the module and, where the module is proposed by School staff, will be responsible for its resourcing"

|  |  |
| --- | --- |
| .................................................................Head of School…………………………………………………….Print Name | ..............................................Date |

Module Specification Template
Last updated February 2013