BSc Business Statistics and Marketing For students entering Part 1 in 2008/9

Awarding Institution: Teaching Institution: Relevant QAA subject Benchmarking group(s):

Faculty: Programme length: Date of specification: Programme Director: Programme Advisor: Board of Studies: Accreditation:

Summary of programme aims

UCAS code: GN35

University of Reading University of Reading Mathematics, Statistics and Operational Research Science Faculty 3 years 01/Sep/2010 Dr Karen Ayres Dr Karen Ayres Mathematics/Statistics Not applicable

The programme aims to provide a thorough degree-level education in statistics, relevant for those students interested in business, marketing, finance and industry. This is achieved by providing modules which cover the basic principles of summarising, presenting and drawing conclusions from data. Strong emphasis is given to practical applications of the subject, and the use of statistical software in data analysis. This programme also enables students to acquire a sound education in those concepts that will be useful in the business world. This is achieved by taking modules in economics and econometrics, marketing, management of resources, and statistical techniques relevant to business problems.

Transferable skills

During the course of their studies at Reading, all students will be expected to enhance their academic and personal transferable skills in line with the University's Strategy for Learning and Teaching. In following this programme, students will have had the opportunity to develop such skills, in particular relating to career management, communication (both written and oral), information handling, numeracy, problem-solving, team working and use of information technology and will have been encouraged to further develop and enhance the full set of skills through a variety of opportunities available outside their curriculum.

As part of this programme students are expected to have gained experience and show competence in the following transferable skills: IT (word processing, spreadsheet, database and statistical software), scientific writing, oral presentation, team-working, problem-solving, use of library and internet resources, time-management, and career planning.

Programme content

The profile which follows states which modules must be taken (the compulsory part), together with one or more lists of modules from which the student must make a selection (the 'selected' modules). Students must choose such additional modules as they wish, in consultation with their programme advisor, to make 120 credits in each Part. The number of credits for each module is shown after its title.

Part 1 (three terms)

Compulsory modules

Mod Code	Module Title	Credits	Level
AS1E	Exploring Your Data	10	С
AS1F	Statistical Inference	10	С
AS1G	Probability	10	С
AS1H	Statistical Methods	10	С
AP1SB1	Introduction to Management	10	С
AP1EM1	Introduction to Marketing	10	С

Selected modules chosen from the following three options:

Option 1:

EC104	Economics for Managers	20	С
AS1C	Mathematical Methods for Statistics	20	С

and one of

SE1TQ5	Commercial Off-the-Shelf Software	20	С
MM1F2	Introductory Financial Accounting	20	С
LA1***	Modern Language	20	С
MA115	Codes and Code Breaking	20	С
MM1F10	Student Enterprise	20	С
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OR any other approved module(s) of 20 credits

Option 2:

EC104 MA11B	Economics for Managers Calculus and Applications	20 20	C C
and			
MA11C	Matrices, Vectors and Applications	20	С
Option 3:			

EC1F1A	Introductory Microeconomics	20	С
EC1F1B	Introductory Macroeconomics	20	С
AS1C	Mathematical Methods for Statistics	20	С

Part 2 (three terms)

Compulsory modules

<i>Module</i> AS2A AS2B AS2G	<i>Title</i> Statistical Theory and Methods Linear Models Skills for Statisticians	<i>Credits</i> 20 20 20	Level I I I
EC203A	Introductory Econometrics I.1	20	Ι
AP2SB1	Business Management	10	Ι
AP2EM1	Marketing Management	10	Ι

Modules to the value of 20 credits chosen from:

EC203B	Introductory Econometrics I.2	10	Ι
AP2SB2	Financial Management	10	Ι
AP2EC1	Consumer Behaviour	10	Ι
AP2EB3	Management of the Non-Profit Organisations	10	Ι
AS2F	Study Design and Sampling Methods	20	Ι
MM270	The Practice of Entrepreneurship	20	Ι
LA1***	Modern Language	20	С

OR Any other approved module(s)

Part 3 (three terms)

Compulsory modules

Module	Title	Credits	Level
AS3A	Advanced Statistical Modelling	20	Н
AS3F1	Time Series Project	20	Н
AP3EM1	Marketing Strategy	10	Н
AP3EM2	Marketing Research Methods	10	Н
AP3A82	Business Planning and Control	20	Н

At least one of

AS3C	Analysis of Structured Data	20	Н
AS3D	Operational Research Techniques	20	Н
AS3G	Study Design and Sampling Methods	20	Η

And selected modules to make a total of 120 credits, of which 100 must be at level H, chosen from the following:

AP3EM3	Advertising and Branding	10	Н
AP3EB1	Business Strategy	10	Н
AP3A64	Human Resource Management	10	Н
AP3A74	Business Entrepreneurship	10	H^*
MM379	Social Enterprise	20	Н
MM270	The Practice of Entrepreneurship	20	I**

OR any other approved module(s)

*AP3A74 can only be taken if MM270 is not.

** 20 credit module at Level I may be taken in Part 3 only if not taken in Part 2.

Progression requirements

To gain a threshold performance at Part 1 a student shall normally be required to achieve an overall average of 40% over 120 credits taken in Part 1, and a mark of at least 30% in individual modules amounting to not less than 100 credits. In order to progress from Part 1 to Part 2, a student shall normally be required to achieve a threshold performance at Part 1 and to obtain an average of at least 40% in the two compulsory Statistics modules taken together, and at least 30% in each of the four compulsory modules.

To gain a threshold performance at Part 2 and qualify for the DipHE a student shall normally be required to achieve an overall average of 40% over 120 credits taken in Part 2, and a mark of at least 30% in individual modules amounting to not less than 100 credits. In order to progress from Part 2 to Part 3, a student shall normally be required to achieve a threshold performance at Part 2.

Part 2 contributes one third of the overall assessment and Part 3 the remaining two thirds.

Summary of teaching and assessment

Teaching is organised in modules that typically involve both lectures and practicals. The assessment is carried out within the University's degree classification scheme, details of which are in the programme handbook. The pass mark in each module is 40%. Modules are normally assessed by a mixture of coursework and formal examination, although some are assessed wholly by coursework. The Part 3 project is essentially self-study, supported by a series of tutorials, and is assessed as coursework. Part 2 contributes one third of the overall assessment and Part 3 the remaining two thirds.

Admission requirements

Entrants to this programme are normally required to have obtained:

UCAS Tariff: A Level: 280 points including at least grade D in AS Mathematics or grade B in A-level Statistics; or

International Baccalaureate: 29 points including 5 in Mathematics; or Irish Highers: BBBBB, including Mathematics.

Admissions Tutor: Dr Karen Ayres (Applied Statistics)

Support for students and their learning

University support for students and their learning falls into two categories. Learning support includes IT Services, which has several hundred computers, and the University Library, which across its three sites holds over a million volumes, subscribes to around 4,000 current periodicals, has a range of electronic sources of information and houses the Student Access to Independent Learning (S@il) computer-based teaching and learning facilities. There are language laboratory facilities both for those students studying on a language degree and for those taking modules offered by the Institution-wide Language Programme. Student guidance and welfare support is provided by Personal Tutors, School Senior Tutors, the Students' Union, the Medical Practice and the Student Services Directorate. The Student Services Directorate is housed in the Carrington Building and includes the Careers Advisory Service, the Disability Advisory Service, Accommodation Advisory Team, Student Financial Support, Counselling and Study Advisors. Student Services has a Helpdesk available for enquiries made in person or online (www.risisweb.reading.ac.uk), or by calling the central enquiry number on (0118) 378 5555. Students can get key information and guidance from the team of Helpdesk Advisers, or make an appointment with a specialist adviser; Student Services also offer drop-in sessions on everything from accommodation to finance. The Carrington Building is open between 8:30 and 17:30 Monday to Thursday (17:00 Friday and during vacation periods). Further information can be found in the Student website (www.reading.ac.uk/student).

Within the providing departments additional support is given though practical classes, and the development of problem-solving skills is assisted by provision of model solutions to exercises. Advice on statistical computing is available from the statistical computing staff of the School. There is a Programme Adviser to offer advice on the choice of modules within the programme.

Career prospects

Students who follow this programme will have the skills necessary for careers as statisticians in financial institutions, insurance companies and industry.

Opportunities for study abroad or for placements

There are no formal arrangements, but the possibility of a placement year abroad is available in the BSc programme in Applied Statistics.

Programme Outcomes

The programme provides opportunities to develop and demonstrate knowledge and understanding, skills, qualities and other attributes in the following areas:

Knowledge and Understanding

A. Knowledge and understanding of:

1. The fundamental concepts and techniques of economics, business management, marketing, data summary and presentation, statistical inference and linear modelling

- 2. The application of statistics in business
- 3. A selection of more specialist optional topics
- 4. The use of statistical software in data analysis

Teaching/learning methods and strategies

The knowledge required for the basic topics is delineated in formal lectures supported by problem sets for students to tackle on their own. In Part 1 these are supported by tutorials and practical classes through which students can obtain additional help and feedback on their work.

In the programme students are expected to work on practical problems on their own and seek help when required. Model solutions are provided for problems set.

Assessment

Most knowledge is tested through a combination of coursework and unseen formal examinations. Dissertations and oral presentations also contribute in other parts of the programme.

Skills and other attributes

B. Intellectual skills - *able to:*

1. Think logically

2. Analyse and solve problems

3. Organise tasks into a structured form

4. Transfer appropriate knowledge and methods

from one topic within the subject to another

5. Recognise and use appropriate statistical methods in data analysis

6. Plan, conduct and write a report on an independent project

C. Practical skills - able to:

1. Plan, conduct and report on the results of statistical investigations

2. Develop an understanding of business management

3. Use statistical software in an effective manner

4. Write and defend a report on a chosen topic

D. Transferable skills - able to:

use IT (word-processing, spreadsheets and statistical software) communicate scientific ideas give oral presentations work effectively as part of a team use library and internet resources manage time plan their career.

Teaching/learning methods and strategies

Logic is an essential part of the understanding of economic and statistical techniques, and the use of statistical software for data analysis is embedded throughout the programme. The quality of solutions to a problem is substantially determined by the structure of that response; analysis, synthesis, problem solving, integration of theory and application, and knowledge transfer from one topic to another are intrinsic to high-level performance in the programme.

Assessment

Skills 1-3 are assessed indirectly in most parts of the programme, while 4 contributes to the more successful work. Skill 5 is assessed in practical work in Parts 2 and 3, while 6 is assessed through the final year project.

Teaching/learning methods and strategies

Lectures, seminars, practical work and assignments are designed to enhance skills 1-4.

Assessment

Skills 1 and 2 are tested both formatively in coursework and summatively in examin-ations. Skill 3 is assessed in coursework that involves computer based analysis, and skill 4 is assessed through the project dissertation and its oral presentation.

Teaching/learning methods and strategies

The use of IT is embedded throughout the programme, and in the packages Minitab and SAS taught in Parts 1 and 2. Team work and career planning feature in modules on Business Management and Marketing, and Skills for Statisticians. Communication skills are enhanced in Part 1, and are further deployed in modules in Parts 2 and 3. Time management is essential for the timely and effective completion of the programme. Library and internet resources are required for certain assignments and the final year project, and contribute to the best performances throughout.

Assessment

Skills 1 and 2 are assessed through coursework. Skills 2-4 contribute assessed coursework towards the module Skills for Statisticians. Effective use of these skills will enhance performance in later modules.

Please note - This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each module can be found in the module description and in the programme handbook. The University reserves the right to modify this specification in unforeseen circumstances, or where the process of academic development and feedback from students, quality assurance process or external sources, such as professional bodies, requires a change to be made. In such circumstances, a revised specification will be issued.