

Programme Specification

1	Awarding body	University of London
2	Teaching Institution	Birkbeck College
3	Programme Title(s)	BSc Statistics and Economics
4	Programme Code(s)	UBSSTECN_C
5	UCAS code	N/A
6	Home Department	Economics, Mathematics & Statistics
7	Exit Award(s)	Certificate of Higher Education Diploma of Higher Education
8	Duration of Study (number of years)	4 years
9	Mode of Study	Part Time
10	Level of Award (FHEQ)	6
11	Other teaching depts or institution	N/A
12	Professional, Statutory Regulatory Body(PSRB) details	N/A
13	<u>QAA Benchmark Group</u>	Mathematics, Statistics and Operational Research

14	Programme Rationale & Aims
	<p>Main Aims:</p> <p>The BSc aims to provide a broad education in the main areas of statistics and economics. The programme covers both theoretical aspects of the subjects as well as modelling techniques and the application of statistics to problems in the natural and social sciences. Students develop an understanding of a range of quantitative skills together with the theoretical background to enhance their understanding of this material, and develop a knowledge and understanding of the issues in economics. The programme aims to develop the student's ability and confidence to learn independently through regular coursework.</p> <p>In line with the College's mission to make high quality education available to students who are not able for whatever reason to study full-time, the programme is delivered by part-time, evening, face-to-face study.</p>

15	Entry Criteria
	<p>The normal entry requirement is a minimum of two A-levels, or the equivalent. A-level mathematics, or the equivalent, is desirable, but not essential. Applicants without such a qualification are required to pass an entrance test.</p> <p>We welcome applicants without traditional entry qualifications as we base decisions on our own assessment of qualifications, knowledge and previous work experience. We may waive</p>

	<p>formal entry requirements based on judgement of academic potential.</p> <p>Students taking the Certificate in Higher Education in Mathematical Studies at Birkbeck can gain access to the programme provided they obtain at least a Merit.</p>
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16	<p>Learning Outcomes</p> <p><i>On successful completion of this programme a student will have attained the following learning outcomes.</i></p> <p>Subject Specific</p> <p>LO1 Knowledge and understanding of, and the ability to use, mathematical and statistical techniques.</p> <p>LO2 Knowledge and understanding of a range of results in mathematics and statistics.</p> <p>LO3 Appreciation of the need for proof in mathematics, and the ability to follow and construct mathematical arguments.</p> <p>LO4 Awareness of the use of mathematics and/or statistics to model problems in the natural and social sciences, and the ability to formulate such problems using appropriate notation.</p> <p>LO5 Understand the importance of assumptions and have an awareness of where they are used and the possible consequences of their violation.</p> <p>LO6 Ability to present, analyse and interpret data.</p> <p>LO7 A deeper knowledge of some particular areas of statistics.</p> <p>LO8 Understanding of the basic principles of economics.</p> <p>LO9 Understand and use the quantitative techniques relevant to economics.</p> <p>LO10 Develop technical skills in economics.</p> <p>LO11 Develop knowledge and understanding of the theory and practice of economics.</p> <p>LO12 A deeper knowledge of some particular areas of economics.</p> <p>Intellectual</p> <p>LO13 Problem-solving skills, including the ability to assess problems logically and to approach them analytically.</p> <p>LO14 Ability to comprehend conceptual and abstract material.</p> <p>LO15 Highly developed quantitative skills.</p> <p>Practical</p> <p>LO16 Ability to use a range of software packages including word processing and spreadsheets.</p> <p>LO17 Ability to transfer knowledge and expertise from one context to another.</p> <p>Personal and Social</p> <p>LO18 Ability to learn independently using a variety of media.</p>
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	<p>LO19 Ability to work independently with patience and persistence.</p> <p>LO20 Time-management and organizational skills.</p> <p>LO21 Good communication skills, including the ability to write coherently.</p>
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17	<p>Learning, teaching and assessment methods</p> <p>Most teaching sessions are lectures or occasionally computing sessions. Lectures present both theory and worked examples. Computing sessions use either spreadsheets or a modern statistical or mathematical software package, and enable students to learn about these packages and allow them to develop a greater understanding of the course material. The computing sessions are usually self-paced and informal.</p> <p>Detailed course notes, problems and worked solutions are provided to accompany lectures on each course. This facilitates the independent study necessary to understand and assimilate the material. Regular coursework and a variety of assessment methods are also designed to be formative and promote learning.</p> <p>Individual tutorials are provided as required and are an integral part of the teaching provision. Students may also consult staff by telephone and email.</p> <p>The methods of assessment used are:</p> <ul style="list-style-type: none"> • Unseen 3 hour examinations in May/June. • Assessed assignments. • Essays. <p>For most modules 80% of the assessment comes from unseen examinations in May/June. This allows time for students to assimilate the material and develop a thorough understanding of the course curriculum. The 20% contribution from coursework enables students to get practice in tackling and solving problems independently, without the time pressure of examinations, and gives staff an opportunity to give relevant feedback.</p> <p>The range of assessments, and the type of questions and problems set within examinations and assignments are structured to balance theory and practice, to address the individual learning outcomes and to discriminate between different levels of achievement. However the assessment strategy recognizes that students may exhibit very different aptitudes and abilities in different aspects of the course and in different forms of assessment. This is particularly relevant to Birkbeck students who vary considerably in terms of academic background, prior work experience, current career and future career plans. The assessment strategy is therefore designed to: (i) ensure a good coverage of the curriculum and address the range of learning outcomes, (ii) perform an on-going formative function via the theoretical and practical assignments associated with all course modules; (iii) give all students the opportunity to demonstrate their strengths and show what they can do well.</p> <p>Both the external and the second internal examiner normally scrutinize all examination papers before they are finalized. Exams and Essays are all double marked. Coursework is</p>
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marked by the first examiner and moderated by the second internal examiner. All marks are moderated by the External Examiner, who is invited to comment on the suitability of the assessment methods, criteria and procedures. These comments influence any changes that are recommended at the BSc review meeting.

18	Programme Structure			
	<p>Description: The first three years of the programme consist of core and compulsory modules (with one option module in year 2). These core and compulsory modules cover the body of knowledge that every student is expected to know as a key part of university level study in this area. In year 4 students can choose 90 credits worth of option modules to suit their interests, abilities and future study/career plans. At least 60 credits in year 4 must be at level 6, and at least 30 must be statistics modules (this means students must take either “Probability Models and Time Series” or “Statistical Modelling”). Nearly all level 6 mathematics modules run biennially to enable us to offer more options. An indicative list of level 5 and 6 options is given at the end of the module list below.</p>			
4 year part-time programme				
Year 1				
Level	Module Code	Module Title	Credits	Status*
4	EMMS096S4	Calculus 1: Single Variable	30	Core
4	EMMS097S4	Algebra 1: Techniques and Applications	30	Core
4	EMEC013S4	Introduction to Economics	30	Core
Year 2				
Level	Module Code	Module Title	Credits	Status*
5	BUEM001S5	Calculus 2: Multivariable & Differential Equations	30	Compulsory
5	EMMS098S5	Probability & Statistics	30	Compulsory
5		option module from indicative list below	30	Option
Year 3				
Level	Module Code	Module Title	Credits	Status*
6	EMEC011S6	Macroeconomics	30	Compulsory
6	EMEC012S6	Microeconomic Theory and Policy	30	Compulsory
6	BUEM003S6	Statistics: Theory and Practice	30	Compulsory
Year 4				
Level	Module Code	Module Title	Credits	Status*
5/6		option module from indicative list below	30	Option
6		Either “Probability Models and Time Series”, or “Statistical Modelling”	30	Option
6		option module from indicative list below	30	Option

Option Modules (Indicative list)				
Level	Module Code	Module Title	Credits	Status*
5	BUEM002S5	Discrete Mathematics	30	Option
5	EMEC023S5	UK Financial Institutions and Markets	30	Option
6	BUEM021S6	Calculus 3: Transforms and Models	30	Option
6	BUEM023S6	Probability Models and Time Series	30	Option
6	BUEM024S6	Statistical Modelling	30	Option
6	BUEM010S6	Computational Mathematics	30	Option
6	BUEM022S6	Games, Choice and Optimization	30	Option
6	EMEC007S6	Time-Series Econometrics	30	Option
6	EMEC003S6	Corporate Finance	30	Option
6	EMEC027S6	International Finance	30	Option

Status*

CORE – Module must be taken and passed by student; *COMPULSORY* – Module must be taken, mark can be reviewed at sub-exam board; *OPTIONAL* – Student can choose to take this module

19	Regulations
	<ul style="list-style-type: none"> • Admissions This programme adheres to the College Admissions Policy: http://www.bbk.ac.uk/registry/policies/documents/admissions-policy.pdf • Credit Transfer Accredited Prior Learning will be considered in line with the College Policy on Accredited Prior Learning http://www.bbk.ac.uk/registry/policies/documents/accreditation-prior-learning.pdf • Programme Regulations This programme adheres to the College Common Awards Scheme http://www.bbk.ac.uk/registry/policies/regulations • Programme Specific Regulations (if applicable) To gain a Cert HE in Statistics and Economics, students must take and pass Algebra 1, Calculus 1, Probability and Statistics and Introduction to Economics. To gain a Dip HE in Statistics and Economics, students must take and pass Algebra 1, Calculus 1, Probability and Statistics, Introduction to Economics, and Statistics: Theory and Practice, plus take a further 90 credits worth of modules including at least two of Intermediate Microeconomics, Intermediate Macroeconomics and Calculus 2.

20	Student Attendance Framework – in brief
	The full version of the 'Student Attendance Framework' is available http://www.bbk.ac.uk/mybirkbeck/services/rules/Attendance-Framework.pdf .

	<p>Principle</p> <p>Consistent and regular student attendance in class (or equivalent) promotes and affords student success. Inconsistent and irregular attendance is less likely to result in student success and is consistent with lower marks and degree classifications being achieved and awarded.</p> <p>Attendance expectation</p> <p>Birkbeck, University of London expects you to consistently attend all timetabled sessions, including lectures, seminars, group and individual tutorials, learning support sessions, workshops, laboratories, field trips, inductions and demonstrations.</p> <p>E-Registers</p> <p>All Birkbeck students are issued with student cards. Students are expected to take them to classes and to assessment venues and to present them to a member of staff if requested. This is for the purpose of identifying Birkbeck students.</p>
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21	Student Support and Guidance
	All Birkbeck students have access to a range of student support services, details can be found on our website here: http://www.bbk.ac.uk/mybirkbeck/services/facilities

22	Methods of Enhancing Quality and Standards
	<p>The College has rigorous procedures in place for the monitoring and enhancing its educational provision. This includes regular monitoring of programmes drawing on feedback from various sources including external examiner's reports, student feedback, student achievement and progression data. In addition, departments are reviewed every four to five years through the internal review process that includes external input.</p> <p>For more information please see the Academic Standards and Quality website http://www.bbk.ac.uk/registry/about-us/operations-and-quality</p>

23	Programme Director	Dr Andrew Bowler
24	Start Date (<i>term/year</i>)	Prior to 2008/09
25	Date approved by TQEC	Prior to 2008/09
26	Date approved by Academic Board	Prior to 2008/09
27	Date(s) updated/amended	October 2017