

**Royal Holloway, University of London**  
**Programme specification for an undergraduate award**  
**BSc Finance and Mathematics with a Year in Business N3G1)**

**Section 1 – Introduction to your programme**

This programme specification is a formal document, which provides a summary of the main features of your programme and the learning outcomes that you might reasonably be expected to achieve and demonstrate if you take full advantage of the learning opportunities that are provided. Further information is contained in the College prospectus, and in various handbooks, all of which you will be able to access online. Alternatively, further information on the College's academic regulations and policies can be found [here](#). Further information on the College's Admissions Policy can be found [here](#).

Your degree programme in BSc Finance and Mathematics with a Year in Business is delivered in four stages. Stages one, two and four comprises one year of full-time study during which you must follow courses to the value of four units (one unit is equivalent to 30 national credits). Those programmes with a Year in Business are delivered in four stages with stage three consisting of work experience of between six and twelve months in an organisation or institution approved by the Economics Department as having a function relevant and suitable to the degree programme. For stage three of the programme you must take one course worth 30 credits.

For joint and combined honours programmes, please refer to the programme specification for your secondary department's corresponding single honours programme for further information on educational aims, and learning outcomes.

While Royal Holloway keeps all the information made available under review, programmes and the availability of individual course units, especially optional course units are necessarily subject to change at any time, and you are therefore advised to seek confirmation of any factors which might affect your decision to follow a specific programme. In turn, Royal Holloway will inform you as soon as is practicable of any significant changes which might affect your studies.

The following is brief description for some of the most important terminology for understanding the content of this document:

*Degree programme* – Also referred to as 'degree course' or simply 'course', these terms refer to the qualification you will be awarded upon successful completion of your studies.

*Course unit* – Also referred to as 'module', this refers to the individual units you will study each year to complete your degree programme. Undergraduate degrees at Royal Holloway comprise four full units, or a combination of full and half units, to the value of 120 credits per year. On some degree programmes a certain number of optional course units must be passed for a particular degree title.

Section 2 – Programme details			
Date of specification update	April 2019	Location of study	Egham Campus
Programme award and title	BSc Finance and Mathematics with a Year in Business	Level of study	Undergraduate
Programme code	3349	UCAS code	N3G1
Year of entry	2019/20		
Awarding body	Royal Holloway, University of London		
Department or school	Economics	Other departments or schools involved in teaching the programme	Mathematics & ISG
Mode(s) of attendance	Full-time	Duration of the programme	Four years
Accrediting Professional, Statutory or Regulatory Body requirement(s)	N/A		
Link to Coursefinder for further information:	<a href="https://www.royalholloway.ac.uk/studying-here/">https://www.royalholloway.ac.uk/studying-here/</a>	For queries on admissions:	<a href="mailto:study@royalholloway.ac.uk">study@royalholloway.ac.uk</a> .

Section 3 – Degree programme structure										
3.1 Mandatory course unit information										
The following table summarises the mandatory modules which students must take in each year of study										
Year	Course code	Course title	Contact hours*	Self-study hours	Written exams**	Practical assessment**	Coursework**	Credits	FHEQ level	Course status (see below)
1	EC1101	Economics: Principles of Economics	81	219	90%	10%	10%	30	4	MNC
1	EC1133	Economics: Applied Economics and Policy	29	121	0	30%	70%	15	4	MNC
1	MT1300	Mathematics: Principles of Statistics	43.5	106.5	70%	0	0	15	4	MC
1	MT1710	Mathematics: Calculus	46.5	103.5	80%	0	20%	15	4	MC
1	MT1720	Mathematics: Functions of Several Variables	43.5	106.5	90%	0	0	15	4	MC
1	MT1810	Mathematics: Number Systems	43.5	106.5	80%	0	20%	15	4	MC
1	MT1820	Mathematics: Matrix Algebra	43.5	106.5	90%	0	0	15	4	MC
2	EC2202	Economics: Macroeconomics	63	237	95%	0	5%	30	5	MNC
2	EC2211	Economics: Financial and Mathematics and Institutions	19.5	130.5	83	0	17	15	5	MC
2	EC2501	Microeconomics A	60	240	100%	0	0	30	5	MNC
2	MT2300	Mathematics: Statistical Methods	43.5	106.5	80%	0	20%	15	5	MC
2	MT2630	Mathematics: Graphs and Optimisation	33	117	90%	0	10%	15	5	MC

3	EC3511	Year in Business					100%	30	6	MNC
4	EC3314	Economics: Financial Economics	60	240	75%	0	25%	30	6	MC
4	EC3324	Economics: Topics in Game Theory	29	121	100%	0	0	15	6	MC
4	MT3480	Mathematics: Advanced Financial Mathematics	19.5	130.5	90%	0	10%	15	6	MC
4	MT3470	Mathematics: Maths of Financial Markets	33	117	90%	0	10%	15	6	MC

This table sets out the most important information for the mandatory courses on your degree programme. These courses are central to achieving your learning outcomes, so they are compulsory, and all students on your degree programme will be required to take them. You will be automatically registered for these courses each year. Mandatory courses fall into two categories; 'condonable' or 'non-condonable'.

In the case of mandatory 'non-condonable' (MNC) courses, you must pass the course before you can proceed to the next year of your programme, or to successfully graduate with a particular degree title. In the case of mandatory 'condonable' (MC) courses, these must be taken but you can still progress or graduate even if you do not pass them. Please note that although Royal Holloway will keep changes to a minimum, changes to your degree programme may be made where reasonable and necessary due to unexpected events. For example; where requirements of relevant Professional, Statutory or Regulatory Bodies have changed and programme requirements must change accordingly, or where changes are deemed necessary on the basis of student feedback and/or the advice of external advisors, to enhance academic provision.

\*Contact hours come in various different forms, and may take the form of time spent with a member of staff in a lecture or seminar with other students. Contact hours may also be laboratory or, studio-based sessions, project supervision with a member of staff, or discussion through a virtual learning environment (VLE). These contact hours may be with a lecturer or teaching assistant, but they may also be with a technician, or specialist support staff.

\*\*The way in which each course on your degree programme is assessed will also vary, however, the assessments listed above are all 'summative', which means you will receive a mark for it which will count towards your overall mark for the course, and potentially your degree classification, depending on your year of study. On successful completion of the course you will gain the credits listed. 'Coursework' might typically include a written assignment, like an essay. Coursework might also include a report, dissertation or portfolio. 'Practical assessments' might include an oral assessment or presentation, or a demonstration of practical skills required for the particular course.

### 3.2 Optional course units

In addition to mandatory course units, there will be a number of optional course units available during the course of your degree. The following table lists a selection of optional course units that are likely to be available. However, not all may be available every year. Although Royal Holloway will keep changes to a minimum, new options may be offered or existing

ones may be withdrawn. For example; where reasonable and necessary due to unexpected events, where requirements of relevant Professional, Statutory or Regulatory Bodies (PSRBs) have changed and programme requirements must change accordingly, or where changes are deemed necessary on the basis of student feedback and/or the advice of External Advisors, to enhance academic provision. There may be additional requirements around option selection, so it is important that this specification is read alongside your department's Student Handbook, which you can access via their [webpage](#).

Year 1	Year 2	Year 4
None	Mathematics - MT2320: Mathematics: Probability	Economics - EC3322: Behavioural Economics
	Mathematics - MT2940: Mathematics: Real Analysis	Economics - EC3348: Economics: Corporate Finance
	Mathematics - MT2860: Mathematics: Group Action	Mathematics – MT3120: Computational Number Theory
		Mathematics – MT3450: Quantum Information and Coding

**3.3 Optional course unit requirements**

During stage two you must take 15 credits worth of courses as specified by Mathematics.  
 During stage four you must take 15 credits worth of options from Economics and a further 30 credits from Mathematics.

**Section 4 - Progressing through each year of your degree programme**

For further information on the progression and award requirements for your degree, please refer to Royal Holloway's [Academic Regulations](#). As part of your degree programme you may also be required to complete a course to develop your academic writing skills. This course does not carry credit but passing it is a requirement to progress to the next year of study. The third year of this degree programme will be spent on a work placement. You are supported by your academic department and the Royal Holloway Careers Service to find a suitable placement. However, Royal Holloway cannot guarantee that all students who are accepted onto this degree programme will secure a placement, and the ultimate responsibility lies with you. You will need to achieve an agreed level of academic performance to proceed onto, or remain on, a placement. On BSc Finance and Mathematics with a Year in Business this level is set at passing Year 1 and Year 2 with a stage average of at least 60%. This year forms an integral part of the degree programme and you will be asked to complete assessed work. The mark for this work will count towards the degree. For students on BSc Finance and Mathematics with a Year in Business the course unit, EC3511 Year in Business is mandatory non-condonable and must be passed to qualify for the degree title Year in Business.

**Section 5 – Educational aims of the programme**

The aims of this programme are:

- to provide training in the principles of economics and their application appropriate to the type of degree concerned;
- to stimulate students intellectually through the study of economics and to lead them to appreciate its application to a range of problems and its relevance in a variety of contexts;
- to develop in students the ability to apply the knowledge and skills they have acquired to the solution of theoretical and/or applied problems in economic policy;
- to equip students with appropriate tools of analysis to tackle issues and problems of economic policy;
- to develop in students, through the study of economics, a range of transferable skills that will be of value in employment and self-employment;
- to provide students with analytical skills and an ability to develop simplifying frameworks for studying the real world and to be able to appreciate what would be an appropriate level of abstraction for a range of economic issues;
- to provide students with the knowledge and skill base from which they can proceed to further studies in Economics and related areas.

**Section 6 - Programme learning outcomes**

**In general terms, the programmes provide opportunities for students to develop and demonstrate the following learning outcomes. (Categories – Knowledge and understanding (K), Skills and other attributes (S), and Transferable skills (\*))**

<ol style="list-style-type: none"> <li>1. A coherent core of economic principles (K);</li> <li>2. Relevant mathematical and statistical techniques (K);</li> <li>3. Applying core economic theory and economic reasoning to applied topics (K);</li> <li>4. Relevant analytical methods (K);</li> <li>5. Analysing economic data (K);</li> <li>6. A number of specialised areas in Economics (K);</li> <li>7. Abstraction (the ability to simplify while still retaining relevance) (S);</li> <li>8. Analysis and deduction (Economic reasoning is highly deductive and logical analysis is applied to assumption based models) (S);</li> <li>9. Quantification (the organisation and presentation of economic data) (S);</li> <li>10. Framing and specification (the ability to decide what should be taken as given or fixed for the purposes of setting up and solving a problem) (S);</li> <li>11. Decision making (S*);</li> </ol>	<ol style="list-style-type: none"> <li>12. Numeracy (S*);</li> <li>13. Understanding of the key concepts of opportunity cost, incentives, equilibrium, strategic thinking, expectations and surprises and the relevance of marginal considerations; *</li> <li>14. Learning and study (S*);</li> <li>15. Written and oral communication (S*);</li> <li>16. Numeracy and computation (S*);</li> <li>17. Information technology (S*);</li> <li>18. Team working (S);</li> <li>19. Independent study and time management (S*);</li> <li>20. In respect of the Year in Business programme identify some of the key activities involved in the running of an organisation.</li> </ol>
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Section 7 - Teaching, learning and assessment	
<p>Teaching is mostly by means of lectures and seminars, the latter generally providing a forum for you, with the support of your instructors, to work through problem sets and applications in a smaller and more interactive setting. Learning is through participation in lectures and seminars, designated reading and completion of problem sets and online exercises. Essays and short written answers ensure that the skills of exposition and critique are developed and evaluated. At the end of the programme and if the extended essay is undertaken, most students will apply the knowledge and skills they have acquired in the conduct of a piece of original research under the close supervision of a member of staff. It is expected that students with an interest in research will develop the relevant skills for future use. Assessment of knowledge and understanding is typically by formal, unseen written examination, although continuous assessment in the form of unseen tests features in the assessment of a number of courses. Full details of the assessments for individual courses can be obtained from the <a href="#">Department</a>.</p>	

Section 8 – Additional costs	
No additional costs.	
<p><b>These estimated costs relate to studying this particular degree programme at Royal Holloway. General costs such as accommodation, food, books and other learning materials and printing etc., have not been included, but further information is available on our website.</b></p>	

Section 9 – Indicators of quality and standards	
<b>QAA Framework for Higher Education Qualifications (FHEQ) Level</b>	4-6
<p>Your programme is designed in accordance with the FHEQ to ensure your qualification is awarded on the basis of nationally established standards of achievement, for both outcomes and attainment. The qualification descriptors within the FHEQ set out the generic outcomes and attributes expected for the award of individual qualifications. The qualification descriptors contained in the FHEQ exemplify the outcomes and attributes expected of learning that results in the award of higher education qualifications. These outcomes represent the integration of various learning experiences resulting from designated and coherent programmes of study.</p>	
<b>QAA Subject benchmark statement(s)</b>	<a href="http://www.qaa.ac.uk/quality-code/subject-benchmark-statements">http://www.qaa.ac.uk/quality-code/subject-benchmark-statements</a>
<p>Subject benchmark statements provide a means for the academic community to describe the nature and characteristics of programmes in a specific subject or subject area. They also represent general expectations about standards for the award of qualifications at a given level in terms of the attributes and capabilities that those possessing qualifications should have demonstrated.</p>	

### Section 10 – Further information

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 when taking full advantage of the learning opportunities that are available. More detailed information on course units, including teaching and learning methods, and methods of assessment, can be found via the online [Course Catalogue](#). The accuracy of the information contained in this document is reviewed regularly by the university, and may also be checked routinely by external agencies, such as the Quality Assurance Agency (QAA).

Your programme will be reviewed regularly, both by the university as part of its cyclical quality enhancement processes, and/or by your department or school, who may wish to make improvements to the curriculum, or in response to resource planning. As such, your programme may be revised during the course of your study at Royal Holloway. However, your department or school will take reasonable steps to consult with students via appropriate channels when considering changes. All continuing students will be routinely informed of any significant changes.

### Section 11 – Intermediate exit awards (where available)

You may be eligible for an intermediate exit award if you complete part of the programme as detailed in this document. Any additional criteria (e.g. mandatory course units, credit requirements) for intermediate awards is outlined in the sections below.

Award	Criteria	Awarding body
Diploma in Higher Education (DipHE)	Pass in 210 credits of which at least 90 must be at or above FHEQ Level 4 and at least 120 of which must be at or above FHEQ Level 5	Royal Holloway and Bedford New College
Certificate in Higher Education (CertHE)	Pass in 120 credits of which at least 90 must be at or above FHEQ Level 4	Royal Holloway and Bedford New College



Section 12 - Associated award(s)	
BSc (Econ) Economics (L101) JACS code L100	
BSc (Econ) Financial and Business Economics (L111) JACS codes L100, L110, L111	
BSc (Econ) Economics with French (L1R1) JACS codes L100, r110	
BSc (Econ) Economics with German (L1R2) JACS codes L100, R120	
BSc (Econ) Economics with Italian (L1R3) JACS codes L100, R310	
BSc (Econ) Economics with Management (L1N2) JACS codes L100, N100	BSc Economics and Management (LN12) JACS codes L100, N100
BSc (Econ) Economics with Mathematics (L1G1) JACS codes L100, G100	BSc Economics and Mathematics (LG11) JACS codes L100, G100
BSc (Econ) Economics with Music (L1W3) JACS codes L100, W100	BSc Finance and Mathematics (NG31) JACS codes G100, L100
BSc (Econ) Economics with Political Studies (L1L2) <sup>1</sup> JACS codes L100, L200	BSc Finance and Mathematics (N3G1) JACS codes G100, L100
BSc (Econ) Economics with Spanish (L1R4) JACS codes L100, R410	BSc Economics, Politics and International relations (LL12) JACS codes L100, L200