PROGRAMME SPECIFICATION – UNDERGRADUATE PROGRAMMES

KEY FACTS

<table>
<thead>
<tr>
<th>Programme name</th>
<th>Actuarial Science with Foundation year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Award</td>
<td>BSc (Hons)</td>
</tr>
<tr>
<td>School</td>
<td>Bayes Business School</td>
</tr>
<tr>
<td>Department or equivalent</td>
<td>UG Programme (Bayes Business School)</td>
</tr>
<tr>
<td>UCAS Code</td>
<td>G320</td>
</tr>
<tr>
<td>Programme code</td>
<td>USACTF</td>
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<tr>
<td>Type of study</td>
<td>Full Time</td>
</tr>
<tr>
<td>Total UK credits</td>
<td>570</td>
</tr>
<tr>
<td>Total ECTS</td>
<td>285</td>
</tr>
</tbody>
</table>

PROGRAMME SUMMARY

The BSc (Hons) Actuarial Science with Foundation Year degree gives a sound education in mathematics, statistics and actuarial science. You will also gain skills and knowledge in the key areas of probability theory, economics, accounting and computing.

The first year of this degree (which is called Stage 0) provides a foundation in mathematics, economics and IT with additional courses in study skills. This is intended to bring you up to the same standard as students joining the main degree directly into the first year.

The majority of the modules in the following two years are compulsory, while in the final year there are a number of optional modules to choose from, allowing you to tailor your degree to your strengths and future job requirements.

The programme consists of 4 Programme Stages, or 5 Programme Stages if a sandwich year is taken.

Bayes is one of very few business schools in the City of London. Our close links with international corporations are reflected in all our degree programmes which are constantly evolving to meet the needs of an ever-changing business world.

Many of our lecturers are qualified actuaries and have worked in industry and continue to consult for corporate organisations, so you will benefit from their first-hand knowledge and business experience. As we place a high value on teaching both theory and application, you will emerge from your degree with a good
understanding of how to use your newly acquired knowledge in the workplace, whether this concerns a career as an actuary or an alternative direction (such as, for example, risk manager).

Thanks to the academic rigour, the programme also enables some students to further their studies after graduation through a postgraduate degree, such as Actuarial Management at Bayes.

In line with City, University of London’s Employability Development Plan, you are expected to gain practical experience with an employer as part of your undergraduate degree. You can gain this experience through a placement where you work for a period with an employer or through taking one or more modules which are delivered in conjunction with an employer. You should take this requirement into account in choosing which elective modules to take and whether to include a placement within your studies.

Indicative modules and other ways to provide the practical experience would be

BM2104 Micro-Placement
MS2203 Mentoring and Coaching for Leadership
BM3200 Advanced Management Practice
AS3111 Volunteering and Career Development
AS3112 Integrated Professional Training
AS3113 Summer Internship
Professional Placement Year

Aims

1. To develop a good knowledge and understanding of actuarial science, statistics, mathematics, finance and related disciplines.

2. To develop the ability to communicate your knowledge and understanding accurately.

3. To develop learners' understanding of the respective roles of mathematical and statistical calculation, analysis and judgement in actuarial science.

4. To develop the ability to make reasoned judgements, frame appropriate questions and draw independent conclusions.

5. To equip you with the skills required to work professionally as an actuary or in alternative fields related to statistics, finance and in business more generally.

6. To prepare you to enter postgraduate study in actuarial science or related disciplines.

7. To develop responsible and socially aware actuaries, as many of the decisions that you will make in your career will affect numerous stakeholders all of whose views and situations must be taken into account.
On successful completion of the Foundation Year (Stage 0) you will have obtained a fundamental knowledge of mathematics, statistics, economics, accounting, finance and IT to ensure that you are fully prepared to enter Programme Stage 1 of the main degree.

On successful completion of Programme Stage 1 of the Programme you will have acquired a foundational knowledge and understanding of the key concepts and principles underlying your area of study, the ability to recognize and explain these, and to identify and apply appropriate solutions when presented with a problem. On successful completion of Programme Stage 1 you will be eligible for the award of Certificate of Higher Education should you choose to leave the Programme.

On successful completion of Programme Stage 2 of the Programme you will have built on the knowledge and understanding gained at Programme Stage 1 and demonstrated an ability to analyse and apply these concepts and principles to complex problems and scenarios. You will have also have broadened their field of study through the completion of elective modules. On successful completion of Programme Stage 2 you will be eligible for the award of Diploma of Higher Education should you choose to leave the Programme.

When you undertake a programme of study at Bayes Business School we will expect you not only to learn but also to challenge and look critically at the world in which we live. We will constantly ask you to question the ethical underpinning of the assumptions you have made and the decisions you have reached, and that inquisitive, ethical approach is woven through every element of a Bayes education. In recognition Bayes is one of the few business schools to have been awarded Champion Status by the UN PRME (Principles of Responsible Management Education) initiative at Davos in 2018

WHAT WILL I BE EXPECTED TO ACHIEVE?

On successful completion of this programme, you will be expected to be able to:

Knowledge and understanding:
- Recognise and apply core mathematical, statistical and actuarial concepts and principles, including calculus, linear algebra, differential equations and computing
- Recognise and critically evaluate the role of an actuary in a commercial or regulatory organisation
- Select, critique and operate specialist information and concepts in actuarial science, statistics, finance or business
- Identify and critically appraise the role, usage and implications of assumptions,
be able to identify them where used and analyse the consequence of their violation

- Use and critically analyse modelling, modelling techniques, and their conditions and limitations

**Skills:**
- Devise and sustain rational arguments and analyse the arguments of others
- Use calculation and manipulation in the core mathematical, statistical and actuarial subjects
- Identify, select and undertake critical analysis of information from a number of sources (This skill will in particular be assessed in the individual project.)
- Develop and produce an extended task under guidance
- Make use of IT as appropriate to perform tasks such as statistical analysis
- Communicate and discuss results or findings clearly, both orally and in writing
- Operate as part of a group

**Values and attitudes:**
- Reflect on the importance of an ethical approach to work to a professional actuary
- Practise openness in your calculations and maintain clear documentation of your computational works, to allow for verification by your peers
- Demonstrate tolerance of disagreement when cooperating with others during group work
- Practise sensitivity and tolerance in your dealings with others
- Value diversity in cultures and people
- Manage your time effectively

This programme has been developed in accordance with the QAA Subject Benchmark for both finance and mathematics, statistics and operational research.

**HOW WILL I LEARN?**

Teaching and Learning methods are designed to foster your knowledge of and enthusiasm for the subject and stimulate engagement and participation in the learning process. They encourage deep learning and encourage you to reflect on and take responsibility for your own learning and to develop your academic self-
- Lectures provide knowledge and set the context for your private study. This could, for example, be through question and answer sessions, examples, case studies, discussions and (short) exercises. Most contact hours during the degree programme take the form of lectures.

- Tutorials, exercise classes and surgery hours are opportunities to apply the knowledge and to participate in the discussion of the subject area. The main purpose of exercise classes is to give you practice at solving problems, with tutors on hand to help you if you get stuck. Surgery hours have been scheduled if you are having difficulties with the module concerned. A number of tutorials, exercise classes and surgery hours are scheduled during the first year, these serve to help scaffold your learning and develop you as an independent learner. The number of tutorials, exercise classes and surgery hours decreases as you progress and you become more able to direct your own learning.

- In several modules, the face-to-face teaching is complemented by online lectures and an active use of the Virtual Learning Environment. This will vary by module but may take the form of delivery of learning materials and resources, submission and feedback of coursework assessments, on-line lecture delivery, discussion forums, question-and-answer sessions or sample/mock questions and quizzes to help you prepare for assessments.

WHAT TYPES OF ASSESSMENT AND FEEDBACK CAN I EXPECT?

Assessment and Assessment Criteria

Assessment is carried out according to context and purpose and recognises that you may exhibit different aptitudes in different forms of assessment:

- Some assessment is by coursework which you take home and complete with the aid of your notes.
- For Stage 0, there will be continuous assessment using class tests but no large formal exams.
- There are formal unseen written examinations for Stages 1, 2 and 3. They take place at the end of each term (or at the end of a year, if a module is taught over two terms).
- Some assessment takes the form of class tests.
- Some assessment takes the form of online quizzes and tests, using the Virtual Learning Environment.
- A small number of modules require you to give a presentation.
- A group project forms the basis of assessment in two compulsory modules and some electives.
- An individual project forms an integral part of the Programme Stage 3 assessment.

Assessment takes an overall view of your achievements. A level of success in each
individual module that is commensurate with the overall performance is not necessarily required.

Assessment Criteria are descriptions, based on the intended learning outcomes, of the skills, knowledge or attitudes that you need to demonstrate in order to complete an assessment successfully, providing a mechanism by which the quality of an assessment can be measured. Grade-Related Criteria are descriptions of the level of skills, knowledge or attributes that you need to demonstrate in order achieve a certain grade or mark in an assessment, providing a mechanism by which the quality of an assessment can be measured and placed within the overall set of marks. Assessment Criteria and Grade-Related Criteria will be made available to you to support you in completing assessments. These may be provided in programme handbooks, module specifications, on the virtual learning environment or attached to a specific assessment task.

Feedback on assessment

Feedback will be provided on all assessed work (either formative or summative) and on other relevant aspects of your performance and progress in a module. In accordance with the University policy, you will normally be provided with feedback within three weeks of the submission deadline or assessment date. This will normally include a provisional grade or mark. For end of module examinations, or an equivalent significant task (e.g. an end of module project), feedback will normally be provided when results are released following the Assessment Board.

Assessment Regulations

In order to pass your Programme, you should complete successfully or be exempted from the relevant modules and assessments and will therefore acquire the required number of credits. You also need to pass each Programme Stage of your Programme in order to progress to the following Programme Stage.

To qualify for the Honours Degree, you must acquire the total credits indicated in the Student Handbook. Calculation of results and classification of the final award is based on a weighted average of module marks. The contribution of each module is proportional to its credit value.

BSc degrees are awarded with First Class Honours, Second Class Honours (Upper and Lower) or Third Class Honours.

The overall class of honours awarded is based on the overall weighted average mark achieved throughout the Programme Stages of your degree. The weights given to each Programme Stage are shown below:

<table>
<thead>
<tr>
<th>Programme Stage</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Year</td>
<td>0%</td>
</tr>
<tr>
<td>One</td>
<td>10%</td>
</tr>
<tr>
<td>Two</td>
<td>30%</td>
</tr>
<tr>
<td>Three</td>
<td>60%</td>
</tr>
</tbody>
</table>
Progression from Foundation Year to Programme Stage 1
The Foundation Year is made up of a number of different modules that each have
their own pass mark, with higher marks required in maths and probability and
statistics. The pass mark for each module is detailed in the Module Specifications.
Each module must be passed individually to progress to Programme Stage 1.

Progression from Programme Stage 1 to Programme Stage 2
To be admitted to Programme Stage 2 it is necessary to achieve:

- A module mark of at least 40% in each module, and
- 150 credits at Programme Stage 1.

Progression from Programme Stage 2 to Programme Stage 3
To be admitted to Programme Stage 3 it is necessary to achieve:

- A module mark of at least 40% in each module*, and
- 150 credits at Programme Stage 2.

*for module AS2205 Contingencies, you are required to pass the coursework and
examination assessment components separately with a mark of 40%.

If you fail an assessment component or a module, the following will apply:

1. Compensation

Compensation at Foundation Year
There is NO compensation for any Foundation Year modules.

Compensation at Programme Stages 1 & 2
Where you fail up to a total of one sixth of the total credits of Programme Stages 1 or
2 at first or resit attempt, you may be allowed compensation if:

- Compensation is permitted for the module involved (see the What will I Study
  section of the programme specification), and
- It can be demonstrated that you have satisfied all the Learning Outcomes of
  the modules in the Programme Stage, and
- A minimum overall mark of 30% has been achieved in the module to be
  compensated, and
- An aggregate mark of 40% has been achieved for the Programme Stage.

Compensation at Programme Stage 3
Once 90 credits have been earned, the remaining credits for Programme Stage 3 can
be earned either by passing modules or through compensation provided that:

- Compensation is permitted for the module involved (see the What will I Study
  section of the programme specification), and
- It can be demonstrated that you have satisfied all the Learning Outcomes of
  the modules in the Programme Stage, and
A minimum overall mark of 30% has been achieved in each module to be compensated, and
An aggregate mark of 40% has been achieved for Programme Stage 3.

Where you are eligible for compensation at the first attempt, this will be applied in the first instance rather than offering a resit opportunity.

If you receive a compensated pass in a module you will be awarded the credit for that module. The original component marks will be retained in the record of marks and your original module mark will be used for the purpose of your Award calculation.

2. Resit

Where you are not eligible for compensation at the first attempt, you will be offered one resit attempt.

If you are successful in the resit, you will be awarded the credit for that module. The mark for each assessment component that is subject to a resit will be capped at the pass mark for the module. This capped mark will be used in the calculation of the final module mark together with the original marks for the components that you passed at first attempt.

If you do not meet the pass requirements for a module and do not complete your resit by the date specified you will not progress to the next Programme Stage and the Assessment Board will require you to be withdrawn from the Programme.

If you fail to meet the requirements for a particular Programme Stage or the Programme, the Assessment Board will consider whether you are eligible for an Exit Award as per the table below.

If you would like to know more about the way in which assessment works at City, please see the full version of the Assessment Regulations at: http://www.city.ac.uk/__data/assets/word_doc/0003/69249/s19.doc

### WHAT AWARD CAN I GET?

**Bachelor's Degree with Honours:**

<table>
<thead>
<tr>
<th>Programme Stage</th>
<th>HE Level</th>
<th>Credits</th>
<th>Weighting (%)</th>
<th>Class</th>
<th>% required</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>120</td>
<td>0</td>
<td>I</td>
<td>70</td>
</tr>
<tr>
<td>1</td>
<td>4</td>
<td>150</td>
<td>10</td>
<td>II upper division</td>
<td>60</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
<td>150</td>
<td>30</td>
<td>II lower division</td>
<td>50</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>150</td>
<td>60</td>
<td>III</td>
<td>40</td>
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</tbody>
</table>

**Ordinary Degree:**
## Programme Stage

<table>
<thead>
<tr>
<th>Programme Stage</th>
<th>HE Level</th>
<th>Credits</th>
<th>Weighting (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>120</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>4</td>
<td>150</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
<td>150</td>
<td>30</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>60</td>
<td>60</td>
</tr>
</tbody>
</table>

### Class % required

- With Distinction: 70
- With Merit: 60
- Without classification: 40

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### Diploma of Higher Education:

<table>
<thead>
<tr>
<th>Programme Stage</th>
<th>HE Level</th>
<th>Credits</th>
<th>Weighting (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>120</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>4</td>
<td>150</td>
<td>35</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
<td>150</td>
<td>65</td>
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</tbody>
</table>

### Class % required

- With Distinction: 70
- With Merit: 60
- Without classification: 40

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### Certificate of Higher Education:

<table>
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<tr>
<th>Programme Stage</th>
<th>HE Level</th>
<th>Credits</th>
<th>Weighting (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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<td>120</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>4</td>
<td>150</td>
<td>100</td>
</tr>
</tbody>
</table>

### Class % required

- With Distinction: 70
- With Merit: 60
- Without classification: 40

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### Why so many credits?

Most degree programmes require students to achieve 120 credits per year, or the equivalent. It would be possible to deliver a degree which covers the professional subjects of the Institute and Faculty of Actuaries within these constraints, but there would be no space for elective modules, which most students find to be a particularly valuable source of breadth in their education. Electives also give you a flavour of alternative career paths if you decide you do not want to become a fully qualified actuary. The reason for the larger number of credits on BSc Actuarial Science with Foundation Year is therefore the broadening of your education and the opportunity to explore a range of possible career options.
WHAT WILL I STUDY?

Programme Stage 0

To pass Programme Stage 0 you must have acquired 120 credits at level HE3 as specified in the programme scheme. To progress from Programme Stage 0 to Programme Stage 1 of the degree, the Foundation Year requirements must have been satisfied.

<table>
<thead>
<tr>
<th>Module Title</th>
<th>SITS Code</th>
<th>Module Credits</th>
<th>Core/ Elective</th>
<th>Can be compensated?</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Mathematics</td>
<td>AS0002</td>
<td>40</td>
<td>C</td>
<td>N</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Economics</td>
<td>AS0003</td>
<td>20</td>
<td>C</td>
<td>N</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Finance and Accounting</td>
<td>AS0004</td>
<td>20</td>
<td>C</td>
<td>N</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Microsoft Office Suite</td>
<td>AS0005</td>
<td>20</td>
<td>C</td>
<td>N</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Probability and Statistics</td>
<td>AS0006</td>
<td>20</td>
<td>C</td>
<td>N</td>
<td>3</td>
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</tbody>
</table>

Programme Stage 1

Programme Stage 1, which is worth 150 credits, provides a grounding in mathematics, statistics, computing, financial mathematics and economics. All modules are compulsory.

<table>
<thead>
<tr>
<th>Module Title</th>
<th>SITS Code</th>
<th>Module Credits</th>
<th>Core/ Elective</th>
<th>Can be compensated?</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Actuarial Methods and Career Planning</td>
<td>AS1003</td>
<td>15</td>
<td>C</td>
<td>Y</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics for Actuarial Science</td>
<td>AS1056</td>
<td>25</td>
<td>C</td>
<td>Y</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to Economics (Actuarial Science)</td>
<td>AS1057</td>
<td>30</td>
<td>C</td>
<td>N</td>
<td>4</td>
</tr>
<tr>
<td>Probability and Statistics I</td>
<td>AS1101</td>
<td>25</td>
<td>C</td>
<td>Y</td>
<td>4</td>
</tr>
<tr>
<td>Financial and Investment Mathematics</td>
<td>AS1201</td>
<td>30</td>
<td>C</td>
<td>N</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to Excel and Statistical Packages</td>
<td>AS1104</td>
<td>10</td>
<td>C</td>
<td>Y</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to VBA for Excel</td>
<td>AS1202</td>
<td>15</td>
<td>C</td>
<td>Y</td>
<td>4</td>
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</tbody>
</table>

Programme Stage 2

At Programme Stage 2, which is worth 150 credits, the statistical and actuarial subjects are further developed along with the mathematical skills required to master the applications-oriented material at Programme Stages 2 & 3. Students seeking exemption from the maximum number of professional examinations with take Financial
Economics and two other electives.

<table>
<thead>
<tr>
<th>Module Title</th>
<th>SITS Code</th>
<th>Module Credits</th>
<th>Core/ Elective</th>
<th>Can be compensated?</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actuarial Practicality</td>
<td>AS2001</td>
<td>10</td>
<td>C</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Calculus and Linear Algebra (Maths 2)</td>
<td>AS2052</td>
<td>15</td>
<td>C</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Probability &amp; Statistics 2</td>
<td>AS2110</td>
<td>30</td>
<td>C</td>
<td>N</td>
<td>5</td>
</tr>
<tr>
<td>Stochastic Models</td>
<td>AS2111</td>
<td>20</td>
<td>C</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Contingencies</td>
<td>AS2205</td>
<td>15</td>
<td>C</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Fundamentals of Finance</td>
<td>AS2114</td>
<td>15</td>
<td>C</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Financial Reporting</td>
<td>AS2207</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Mentoring &amp; Coaching</td>
<td>MS2203</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Corporate Risk Management</td>
<td>FR2105</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Decision Analysis</td>
<td>AS2021</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Python, R and Data Structures</td>
<td>AS2113</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Python, R and Databases</td>
<td>AS2208</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Derivatives, Trading &amp; Hedging</td>
<td>FR2211</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Financial Economics</td>
<td>AS2109</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Risk Analysis and Modelling</td>
<td>FR2208</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Financial Econometrics</td>
<td>FR2107</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>5</td>
</tr>
<tr>
<td>Micro-Placements</td>
<td>BM2104</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>5</td>
</tr>
</tbody>
</table>

**Programme Stage 3**

The core actuarial and statistical subjects are compulsory, as is the Final Year Project. Students also choose four from a wide range of electives to make up the remainder of Programme Stage 3. At least two of the four electives must have an AS prefix.

<table>
<thead>
<tr>
<th>Module Title</th>
<th>SITS Code</th>
<th>Module Credits</th>
<th>Core/ Elective</th>
<th>Can be compensated?</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final Year Project - BSc Actuarial Science</td>
<td>AS3001</td>
<td>20</td>
<td>C</td>
<td>N</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Contingencies</td>
<td>AS3210</td>
<td>15</td>
<td>C</td>
<td>Y</td>
<td>6</td>
</tr>
<tr>
<td>Probabilistic Modelling</td>
<td>AS3209</td>
<td>20</td>
<td>C</td>
<td>Y</td>
<td>6</td>
</tr>
<tr>
<td>Statistical Modelling</td>
<td>AS3110</td>
<td>15</td>
<td>C</td>
<td>Y</td>
<td>6</td>
</tr>
<tr>
<td>Survival Models</td>
<td>AS3204</td>
<td>20</td>
<td>C</td>
<td>Y</td>
<td>6</td>
</tr>
<tr>
<td>Extreme Event Statistics</td>
<td>AS3015</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>6</td>
</tr>
<tr>
<td>Operational Research</td>
<td>AS3021</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Financial Economics</td>
<td>AS3109</td>
<td>15</td>
<td>E</td>
<td>Y</td>
<td>6</td>
</tr>
</tbody>
</table>
This list of electives is an indication of the range of modules that can be on offer and is subject to change due to circumstances such as: enhancing or updating the quality and content of educational provision; responding to student feedback; academic staffing changes; the number of students in each programme; a lack of student demand for certain modules; or factors beyond the institution’s reasonable control, such as meeting the latest requirements of a commissioning or accrediting body. For these reasons, not all the electives listed will be offered every year. New (additional or replacement) modules may also be added for these reasons.

The list of electives offered in a given year will be confirmed by 1st September.

Certain electives may be pre-requisites for other electives you may wish to take later in the programme. Full details can be found in the individual Module Specifications and will be updated annually in your Course Handbook.

In view of the importance of foreign language skills and employability, you also have the opportunity to study extra-curricular (non-credit bearing) language courses in Arabic, French, German, Mandarin, Russian and Spanish.

**TO WHAT KIND OF CAREER MIGHT I GO ON?**

The majority of graduates become actuarial trainees and study for the Institute and
Faculty of Actuaries' examinations; qualified actuaries typically work in pensions, insurance and risk management. Others embark on careers in investment banking and investment management, or in accountancy, commercial banking, financial engineering and financial analysis. Some enter careers in management consultancy, management, computing and teaching, whilst others progress to postgraduate study, often on our MSc in Actuarial Management.

If you would like more information on the Careers support available at City, please go to: http://www.city.ac.uk/careers/for-students-and-recent-graduates.

WHAT STUDY ABROAD OPTIONS ARE AVAILABLE?

If you opt to apply for a sandwich year abroad and are accepted you will study at one of our overseas partner universities in between Stages 2 & 3. You will be required to pass all Programme Stage 2 assessments at the first attempt.

Studying abroad enables you to improve your language skills, develop future business contacts and provides you with an international outlook on business.

WHAT PLACEMENT OPPORTUNITIES ARE AVAILABLE?

If you opt to apply for a placement sandwich year between Stages 2 & 3 and are accepted, you will be required to pass all Programme Stage 2 assessments at the first attempt. However, if you are referred in a module, then this will be considered on a case-by-case basis. This option enables you to gain the professional skills valued by graduate employers, apply the theory you have studied and to develop a network of contacts.

In addition BSc Actuarial Science students are invited to participate in the Careers Service Micro-Placements scheme. See http://www.city.ac.uk/careers/city-opportunities/the-micro-placement-programme for full details of the scheme and how to apply.

WILL I GET ANY PROFESSIONAL RECOGNITION?

Accrediting Body: Institute and Faculty of Actuaries

Nature of Accreditation

Specific modules in all 3 years earn exemptions from 6 of the 13 professional subjects of the Institute and Faculty of Actuaries.

Performance in particular groups of modules qualifies Honours graduates for exemption from the Institute and Faculty of Actuaries’ examinations.

Subject CS1: Actuarial Statistics 1
Subject CS2: Actuarial Statistics 2
Subject CM1: Actuarial Mathematics 1
Subject CM2: Actuarial Mathematics 2
Subject CB1: Business 1 (Business Finance)
Subject CB2: Business 2 (Business Economics)

**Accrediting Body:** Chartered Insurance Institute (CII)

**Nature of Accreditation**
Upon completion of the degree students will receive a significant number of credits towards the Advanced Diploma in Insurance (290 required for completion) and up to 30 credits to be used towards the Diploma/Advanced Diploma in Financial Planning (credits awarded are dependent on modules chosen).

Please note that recognition of prior learning awards can change at any time in response to qualification framework changes. Any changes will be communicated to you as soon as they are confirmed.

**HOW DO I ENTER THE PROGRAMME?**

The Foundation Year is designed as an entry route for students who were unable to obtain the required A Level grades. Each application is treated on its own merit, but a minimum requirement is the equivalent of BBB at A level, including Mathematics.

For students whose first language is not English, evidence of English language proficiency is required.
IELTS: 6.5 with a minimum of 6 in any unit.
Pearson Academic English: 58 overall with a minimum of 50 in any component

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