



PROGRAMME SPECIFICATION

KEY FACTS

Programme name	Actuarial Management
Award	MSc
Exit Awards	PG Dip, PG Cert
School	Bayes Business School
Department or equivalent	Specialist Masters Programme
Programme code	PSACMA
Type of study	Full Time, Part Time
Total UK credits	180
Total ECTS	90
Mode of learning	In person

PROGRAMME SUMMARY

The degree is accredited by the Institute and Faculty of Actuaries and its structure mirrors that of the professional body qualification. The two stages of the degree are as follows.

Stage 1

Successful completion of Stage 1 requires achieving at least 120 credits.

All students must complete three compulsory modules:

- BBM011 Actuarial Practice (CP1) – Part I (15 credits)
- BBM012 Actuarial Practice (CP1) – Part II (15 credits)
- BBM013 Actuarial Practice (CP1) – Part III (15 credits), AND

three elective modules at least two of which must be Specialist Principles modules from the following:

- BBM001 Health and Care (SP1) (30 credits)
- BBM002 Life Insurance (SP2) (30 credits)

- BBM003 Pensions and Other Benefits (SP4) (30 credits)
- BBM004 Finance and Investment A (SP5) (30 credits)
- BBM005 Finance and Investment B (SP6) (30 credits)
- BBM006 General Insurance – Reserving and Capital Modelling (SP7) (30 credits)
- BBM007 General Insurance – Pricing (SP8) (30 credits)
- BBM009 Finance and Financial Reporting (CB1) (15 credits)
- BBM010 Business Economics (CB2) (15 credits)
- SMM048 Insurance Risk Modelling (CS2) (30 credits)
- SMM068 Financial Economics (CM2) (30 credits)
- SMM356 Enterprise Risk Management (15 credits)
- SMM089 Financial Risk (15 credits)

Please note that CP1 – Parts I, II and III together make up the professional subject CP1. Please also note that a choice of CP1 – Parts I, II and III, CP2, CP3 and two Specialist Principle (SP) subjects enables you to reach the highest possible level of the professional qualification. If you already have an exemption from CP1 corresponding to compulsory modules BBM011, BBM012 and BBM013 on the programme, either through taking a professional examination or through prior study, you may be allowed to not take these modules. In that case, you will still need to obtain the corresponding credits from different selection of eligible electives. If you are in such a position, please contact the Course Director. Finally, note that SMM356 and SMM089 do not offer any exemption.

Throughout your degree, you will integrate your learning across a range of professional skills, delivered in a highly targeted and applied format. These skills are aimed at helping you develop your aspirations, plan your approach to your job search and help you create a strong base from which to manage your career long term. You will also be able to use the skills you learn to support your wider study, substantiate your arguments and make informed assessments about the material you are covering.

Stage 2

Successful completion of Stage 2 requires achieving 60 further credits. All students should complete:

EITHER

Option 1 - Elective study only: taking 5 x specialist electives of 10 credits each plus BBM109 Career Management Skills and Research Methods (10 credits).

OR

Option 2- a combination of elective study (3 x 10 credits) and a General Research Project (1 x 30 credits)

OR

Option 3 - SMM092 Modelling Practice (CP2) (15 credits), SMM091 Professional Communication (CP3) (15 credits), 2 short elective modules (10 credits each) plus BBM109 Career Management Skills and Research Methods (10 credits).

OR

Option 4 - SMM092 Modelling Practice (CP2) (15 credits), SMM091 Professional Communication (CP3) (15 credits) and a General Research Project (30 credits).

Successful completion of both Stages 1 and 2 leads to the award of the MSc Actuarial Management (180 credits). Please note that, depending on your choice of modules in Stage 1, you may accumulate more than 180 credits overall. However, your final award will be calculated from 180 credits only.

Aims

- To give students the opportunity to study actuarial science, insurance, finance and investment both at a general level and in relation to specific areas of practice. This includes the opportunity of studying material directly relevant to the Core Principles, Core Practices and Specialist Principles subjects of the examinations of the Institute and Faculty of Actuaries.
- To provide suitable preparation for students wishing to proceed with postgraduate study or enter employment in financial services, both in traditional and wider fields.
- To enable students to develop their own interests in the field of actuarial science either through the completion of a research-based project in a specialised subject of their own choice, or by completion of the required Term 3 elective modules covering both current research topics in actuarial science and relevant issues from wider fields, including insurance, finance, management and business analytics.

Throughout the course, where possible, lecturers will emphasise the many ethical issues that arise in the context of actuarial practice. In so doing, you will be encouraged to share your views with your lecturers and your classmates, where a diversity of opinion is to be expected and encouraged.

Registration Period

It is expected that you will complete this degree within 12 months (full time, part time 24 months). The maximum period of registration for the degree is three years full time (5 years part time).

WHAT WILL I BE EXPECTED TO ACHIEVE?

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

Knowledge

- Examine and discuss the main areas of actuarial practice.
- Explain the use of the Actuarial Control Cycle.
- Demonstrate knowledge and critical understanding of principal theories and concepts of the professional practice.
- Apply actuarial, statistical, and related methods to assess and manage risk effectively.
- Develop awareness of the general commercial environment.

Skills

- Use mathematics to solve quantitative problems within an actuarial context.
- Apply actuarial, statistical and related methods to assess and manage risk.
- Apply the principles of the Actuarial Control Cycle to the main areas of actuarial work.
- Read and understand specialist literature to support your learning and enable you to discuss actuarial topics in a cogent manner.
- Develop and present reasoned arguments, both in technical and non-technical language in order to relate actuarial issues to targeted audiences.

Values and attitudes

- Display the professional integrity, conduct and responsibility required by the Actuarial Profession.
- Present reasoned arguments in clear concise English.

Graduate Attributes

The graduate attributes you can demonstrate on completion of your programme are key to your future employment. It is therefore central to every programme that there will be opportunities in the learning, teaching and assessment activities for you to engage with these on all modules. Further detail of this will be provided for you by your module leader. The graduate attributes are:

- Always learning
- Engaged in the world
- Technical and digital
- Connected Professional

HOW WILL I LEARN?

A range of learning and teaching strategies are used to meet different learning outcomes and to cater for the varied backgrounds of the students. Specific learning and teaching strategies, such as lectures and guided reading, are adopted for students to achieve an understanding of the current level of knowledge in the sphere of actuarial science.

In addition, case studies, real-life exercises and contributions from industry specialists are used to achieve integration between theory and practice. Students work both in small groups to benefit from peer interaction and carry out pieces of individual work. The research projects provide students with the opportunity to acquire research and report-writing skills on an individual basis.

Coursework provides on-going feedback on students' progress. Tests assess knowledge gained. Examinations are used to assess both the knowledge gained at an in-depth level and problem-solving ability

The MSc Actuarial Management is designed and structured to allow for intellectual progression through modules taught in Terms 1 and 2. Modules taught in Term 2 normally build on the knowledge and skill acquired in Term 1. Term 3 electives allow for further progression by choosing specialist elective modules or a dissertation/project, where students can apply knowledge and skills acquired earlier in the programme.

An indicative number of learning and teaching hours (normally around 10, both contact and non-contact) are required for each credit awarded. The precise weighting of different types of learning and teaching depends on the modules you take, and the breakdown is therefore provided within the appropriate module specifications.

Non-contact hours are for self-directed study and account for the **indicative** amount of time you should spend studying independently, including subject research, reading, working in groups and completing assignments and other homework.

Overall learning and teaching hours: approx. 1800 hours

Contact hours: approx. 300 hours (depending on module choices)

WHAT TYPES OF ASSESSMENT AND FEEDBACK CAN I EXPECT?

Assessment and Assessment Criteria

The assessment methods used on the programme consist of a variety of different formats and will depend on your choice of modules. Assessment formats may include

examinations, tests and quizzes, written assignments and presentations, set exercises or computer-based exercises, and may also include a formal research project.

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 to 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 in line with our Assessment and Feedback Policy and will be provided in a variety of ways throughout your course, both formally and informally, in order to support your learning.

You will normally be provided with coursework feedback within three weeks of the submission deadline or assessment date. This would normally include a provisional grade or mark. The timescale for feedback on final projects or dissertations may be longer. Examination grades will be provided once they have been agreed by an Assessment Board.

More details about the feedback you can expect from individual modules and assessments will be provided by your lecturers.

The full policy can be found at: [assessment regulations and policy](#).

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. The programme is weighted according to the number of credits awarded for each module. Pass / Fail modules are excluded from this calculation. The pass mark for each module is 50% and there are no minimum qualifying marks for individual components.

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

1. Re-Sit:

You will normally be offered one re-sit attempt.

If you are successful in the re-sit, you will be awarded the credit for that module. The mark for each assessment component that is subject to a re-sit 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 component(s) that you passed at first attempt.

2. Compensation:

Compensation can only be awarded by the Final Assessment Board and must be applied within the following limits and conditions:

Where you fail up to a total of 30 credits (15 for a postgraduate certificate), you may be eligible for 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, and
- A minimum overall mark of no more than 10% below the module pass mark has been achieved in the module to be compensated, and
- An aggregate mark of 50% has been achieved overall.

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 mark shall be used for the purpose of your award calculation.

If, at the point where you have results for all taught modules:

- You have no more than 30 credits outstanding (15 for a PG Certificate), and
- The grade for this module(s) is 40% or above, and
- Your overall degree average is at least 50%, and
- If the module(s) is eligible for compensation.

Then you will **not** be required to undertake the re-sit for that module, as this will be eligible for compensation.

Please note:

- **If you fail more than 30 credits (excluding project modules), then you must retake all outstanding assessments with no exceptions.**

If you do not meet the pass requirements for a module and do not complete your re-sit by the date specified you will not progress and the Assessment Board will require that you be withdrawn from the programme.

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

To be awarded a Postgraduate Diploma you need to achieve at least 120 credits from modules in Terms 1, 2 and 3.

To be awarded a Postgraduate Certificate you need to achieve at least 60 credits from modules in Terms 1, 2 and 3.

If you fail to meet the requirements for the programme and are not eligible for the award of a lower qualification, the Assessment Board shall require that you withdraw from the programme.

If you would like to know more about the way in which assessment works at City St George's, please see the full version of the [Assessment Regulations](#).

WHAT AWARD CAN I GET?

Master's Degree

Following successful completion of the MSc in Actuarial Management, you will have the ability to assess and evaluate all aspects of Actuarial Management and apply your learning in the appropriate context. You will also have demonstrated the capacity to undertake business research from an analytical perspective.

	HE Level	Credits	Weighting (%)	Class	% required
Degree	7	180	100	With Distinction	70
				With Merit	65
				Without classification	50

Postgraduate Diploma

Following the award of a Postgraduate Diploma in Actuarial Management in addition to the below, you will gain a more advanced knowledge and in-depth understanding of these subject areas, from a variety of different perspectives and in order for you to

broaden your expertise and skills. You will have developed a sophisticated appreciation of current theories and practice in Actuarial Management together with the ability to evaluate a range of different approaches to them.

Students must achieve 120 credits, with a minimum mark of 50%.

	HE Level	Credits	Weighting (%)	Class	% required
Degree	7	120	100	With Distinction	70
				With Merit	65
				Without classification	50

Postgraduate Certificate

Following the award of a Postgraduate Certificate in Actuarial Management you will be able to examine the theories related to all aspects of Actuarial Management and apply your learning in the appropriate context. You will possess the skills and knowledge required to develop a career in the Actuarial Management arena, will have mastered essential skills and knowledge and also developed an appreciation of what it takes to engage with Actuarial Management in context. The assessments you undertake to achieve this qualification will focus on the skills, knowledge and attributes that you will need to facilitate your career development and will support you in developing your practical abilities. The postgraduate certificate will enable you to gain confidence in your skills and your future role.

Students must achieve 60 credits, with a minimum mark of 50%.

	HE Level	Credits	Weighting (%)	Class	% required
Degree	7	60	100	With Distinction	70
				With Merit	65
				Without classification	50

WHAT WILL I STUDY?

Module Title	SITS Code	Module Credits	Compulsory / Elective	Can be Compensated ?	Level
Actuarial Practice (CP1) – Part I	BBM011	15	Co	Y	7

Actuarial Practice (CP1) – Part II	BBM012	15	Co	Y	7
Actuarial Practice (CP1) – Part III	BBM013	15	Co	Y	7
Health and Care (SP1)	BBM001	30	E	Y	7
Life Insurance (SP2)	BBM002	30	E	Y	7
Pensions and Other Benefits (SP4)	BBM003	30	E	Y	7
Finance and Investment A (SP5)	BBM004	30	E	Y	7
Finance and Investment B (SP6)	BBM005	30	E	Y	7
General Insurance – Reserving and Capital Modelling (SP7)	BBM006	30	E	Y	7
General Insurance – Pricing (SP8)	BBM007	30	E	Y	7
Finance and Financial Reporting (Subject CB1)	BBM009	15	E	Y	7
Business Economics (Subject CB2)	BBM010	15	E	Y	7
Insurance Risk Modelling (Subject CS2)	SMM048	30	E	Y	7
Financial Economics (Subject CM2)	SMM068	30	E	Y	7
Enterprise Risk Management**	SMM356	15	E	Y	7
Financial Risk	SMM089	15	E	Y	7
Term Three					
Modelling Practice (CP2)	SMM092	15	E	Y	7
Professional Communication (CP3)	SMM091	15	E	Y	7
General Research Project	BBM110	30	E	N	7
Career Management Skills and Research Methods	BBM109	10	E	Y	7
Advanced Predictive Analytics	SMM069	10	E	Y	7

Applied Machine Learning*	SMM284	10	E	Y	7
Applied Natural Language Processing*	SMM694	10	E	Y	7
Emerging Global Risks	SMM925	10	E	Y	7
Topics in Quantitative Risk Management	SMM070	10	E	Y	7
Financial Crime	SMM739	10	E	Y	7
Financial Statement Analysis & Valuation in Banks	SMM468	10	E	Y	7
Fintech	SMM391	10	E	Y	7
Technical Analysis and Trading Systems	SMM529	10	E	Y	7
Ethics, Society and the Financial Sector	SMM500	10	E	Y	7

*** Prerequisites: note that in order to be allowed to take any of these modules, you need to pass first both the SMM693 Introduction to R and SMM692 Introduction to Python programming modules by a pre-specified deadline.**

**** Note that SMM356 Enterprise Risk Management is not an exemption subject.**

During Term 3 you will be able to choose from a range of electives to personalise your experience.

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.

There may also be pre-requisites for joining a module, and space and timetable availability restrictions may also apply.

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

TO WHAT KIND OF CAREER MIGHT I GO ON?

There is a continuous demand for capable postgraduate level executives in the Actuarial Profession. They work in fields such as insurance companies (life/non-life), consulting firms, government departments, banks and investment firms, teaching and research.

[Careers services | Bayes Business School](#) - Careers Service

WHAT PLACEMENT OPPORTUNITIES ARE AVAILABLE?

Placements are not part of the programme.

WILL I GET ANY PROFESSIONAL RECOGNITION?

Accrediting Body: Institute and Faculty of Actuaries

Nature of Accreditation

There is a rolling accreditation agreement with the Institute and Faculty of Actuaries. Exemptions may be awarded in relation to professional subjects CP1, CP2, CP3, SP1, SP2, SP4, SP5, SP6, SP7 and SP8 (as well as CB1, CB2, CS2, CM2).

HOW DO I ENTER THE PROGRAMME?

To be accepted on to a Bayes MSc degree you will need a good Bachelor's degree. This usually means a UK 2.1 or above, or the equivalent from an overseas institution. Some level of previous study in the specific subject area may be required.

Applicants will need to submit two references, one of which must be an academic reference if the candidate does not have previous work experience. Previous work experience is not a requirement of our full time MSc courses.

We require all students who have not previously studied at in English to take an IELTS exam. The IELTS requirement is 6.5 with a minimum of 6.0 in any section.

RPL/RP(E)L Requirements

Applicants with a prior exemption in CP1, corresponding to compulsory modules on the programme, do not have to take these modules. However, the corresponding number of credits needs to be obtained through passing other eligible electives. If you are in such a position, please contact the Course Director.

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Information is provided subject to Terms and Conditions for study at City St George's,
University of London.