# G100/G10Y/G101 - BSc Mathematics/BSc Mathematics with Year Abroad/BSc Mathematics with Professional Placement

YEAR 1		
Semester 1 (4 modules)	Semester 2 (4 modules)	
MTH4114 [4] Computing and Data Analysis with Excel	MTH4104 [4] Introduction to Algebra	
MTH4200 [4] Calculus I	MTH4201 [4] Calculus II	
MTH4207 [4] Introduction to Probability	MTH4215 [4] Vectors and Matrices	
MTH4213 [4] Numbers, Sets and Functions	MTH4216 [4] Probability and Statistics I	
	YEAR 2 School approval. Permission not granted beyond 15 credits.	
Semester 3 (4 modules)	Semester 4 (4 modules)	
MTH5112 [5] Linear Algebra I	MTH5001 [5] Introduction to Computer Programming	
MTH5123 [5] Differential Equations		
Choose <u>two</u> from the following list including at least one	e of Choose three from:	
MTH5104 and MTH5129:		
	MTH5103 [5] Complex Variables	
MTH5104 [5] Convergence and Continuity	MTH5113 [5] Introduction to Differential Geometry	
MTH5104 [5] Convergence and Continuity MTH5129 [5] Probability and Statistics II	MTH5105 [5] Differential and Integral Analysis	
MTH5130 [5] Number Theory	MTH5120 [5] Statistical Modelling I	
	MTH5114 [5] Linear Programming and Games	
MTH5124 [5] Actuarial Mathematics I	Withoff + [o] Emedi Trogramming and Sames	
timetables. At most 30 credits from Level 5/6 can be no	h School approval and are not guaranteed to give non-clashi	
timetables. At most 30 credits from Level 5/6 can be not	h School approval and are not guaranteed to give non-clashi n-pathway. You must pass at least six level 6 modules <sup>[1]</sup> ral Pathway	
timetables. At most 30 credits from Level 5/6 can be no		
Gene Semester 5 (4 modules)	h School approval and are not guaranteed to give non-clashi n-pathway. You must pass at least six level 6 modules <sup>[1]</sup> ral Pathway	
Gene Semester 5 (4 modules)  Choose four from:	ch School approval and are not guaranteed to give non-clashin-pathway. You must pass at least six level 6 modules <sup>[1]</sup> eral Pathway  Semester 6 (4 modules)  Choose four from:	
Gene Semester 5 (4 modules)  Choose four from:  MTH6141 [6] Random Processes	ch School approval and are not guaranteed to give non-clashin-pathway. You must pass at least six level 6 modules <sup>[1]</sup> Frail Pathway  Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory	
Gene Semester 5 (4 modules)  Choose four from:  MTH6141 [6] Random Processes MTH6154 [6] Financial Mathematics I	ch School approval and are not guaranteed to give non-clashin-pathway. You must pass at least six level 6 modules <sup>[1]</sup> Eral Pathway  Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6155 [6] Financial Mathematics II	
Gene Semester 5 (4 modules)  Choose four from:  MTH6141 [6] Random Processes MTH6154 [6] Financial Mathematics I MTH6151 [6] Partial Differential Equations	ch School approval and are not guaranteed to give non-clashin-pathway. You must pass at least six level 6 modules <sup>[1]</sup> Peral Pathway  Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6155 [6] Financial Mathematics II MTH6101 [6] Introduction to Machine Learning	
Gene Semester 5 (4 modules)  Choose four from:  MTH6141 [6] Random Processes MTH6154 [6] Financial Mathematics I MTH6151 [6] Partial Differential Equations MTH6115 [6] Cryptography	ch School approval and are not guaranteed to give non-clashin-pathway. You must pass at least six level 6 modules <sup>[1]</sup> Peral Pathway  Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6155 [6] Financial Mathematics II MTH6101 [6] Introduction to Machine Learning MTH6150 [6] Numerical Computing with C and C++*	
Gene Semester 5 (4 modules)  Choose four from:  MTH6141 [6] Random Processes MTH6154 [6] Financial Mathematics I MTH6151 [6] Partial Differential Equations MTH6115 [6] Cryptography MTH6140 [6] Linear Algebra II	ch School approval and are not guaranteed to give non-clash n-pathway. You must pass at least six level 6 modules <sup>[1]</sup> Peral Pathway  Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6155 [6] Financial Mathematics II MTH6101 [6] Introduction to Machine Learning MTH6150 [6] Numerical Computing with C and C++* MTH6142 [6] Complex Networks	
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Gene Semester 5 (4 modules)  Choose four from:  MTH6141 [6] Random Processes MTH6154 [6] Financial Mathematics I MTH6151 [6] Partial Differential Equations MTH6115 [6] Cryptography MTH6140 [6] Linear Algebra II MTH6138 [6] Third Year Project**	ch School approval and are not guaranteed to give non-clash in-pathway. You must pass at least six level 6 modules <sup>[1]</sup> Seral Pathway  Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6155 [6] Financial Mathematics II MTH6101 [6] Introduction to Machine Learning MTH6150 [6] Numerical Computing with C and C++* MTH6142 [6] Complex Networks MTH6138 [6] Third Year Project** MTH6110 [6] Communicating & Teaching Mathematics	
Gene Semester 5 (4 modules)  Choose four from:  MTH6141 [6] Random Processes MTH6154 [6] Financial Mathematics I MTH6151 [6] Partial Differential Equations MTH6115 [6] Cryptography MTH6140 [6] Linear Algebra II MTH6138 [6] Third Year Project**	ch School approval and are not guaranteed to give non-clashin-pathway. You must pass at least six level 6 modules <sup>[1]</sup> Peral Pathway  Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6155 [6] Financial Mathematics II MTH6101 [6] Introduction to Machine Learning MTH6150 [6] Numerical Computing with C and C++* MTH6142 [6] Complex Networks	
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Gene Semester 5 (4 modules)  Choose four from:  MTH6141 [6] Random Processes MTH6154 [6] Financial Mathematics I MTH6151 [6] Partial Differential Equations MTH6115 [6] Cryptography MTH6140 [6] Linear Algebra II MTH6138 [6] Third Year Project**  Pure  Semester 5 (4 modules)  Choose four from:  MTH6151 [6] Partial Differential Equations MTH6151 [6] Cryptography	ch School approval and are not guaranteed to give non-clash in-pathway. You must pass at least six level 6 modules <sup>[1]</sup> Firal Pathway  Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6155 [6] Financial Mathematics II MTH6101 [6] Introduction to Machine Learning MTH6150 [6] Numerical Computing with C and C++* MTH6142 [6] Complex Networks MTH6138 [6] Third Year Project** MTH6110 [6] Communicating & Teaching Mathematics  Fe Pathway  Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6158 [6] Ring Theory	
Gene Semester 5 (4 modules)  Choose four from:  MTH6141 [6] Random Processes MTH6154 [6] Financial Mathematics I MTH6151 [6] Partial Differential Equations MTH6115 [6] Cryptography MTH6140 [6] Linear Algebra II MTH6138 [6] Third Year Project**  Pure  Semester 5 (4 modules)  Choose four from:  MTH6151 [6] Partial Differential Equations MTH6151 [6] Cryptography MTH6151 [6] Cryptography MTH6151 [6] Linear Algebra II	ch School approval and are not guaranteed to give non-clash in-pathway. You must pass at least six level 6 modules <sup>[1]</sup> Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6155 [6] Financial Mathematics II MTH6101 [6] Introduction to Machine Learning MTH6150 [6] Numerical Computing with C and C++* MTH6142 [6] Complex Networks MTH6138 [6] Third Year Project** MTH6110 [6] Communicating & Teaching Mathematics  Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6158 [6] Ring Theory MTH6142 [6] Complex Networks	
Gene Semester 5 (4 modules) Choose four from: MTH6141 [6] Random Processes MTH6154 [6] Financial Mathematics I MTH6151 [6] Partial Differential Equations MTH6140 [6] Linear Algebra II MTH6138 [6] Third Year Project**  Pure Semester 5 (4 modules) Choose four from: MTH6151 [6] Partial Differential Equations MTH6151 [6] Cryptography MTH6151 [6] Cryptography MTH6151 [6] Partial Differential Equations MTH6151 [6] Cryptography MTH6140 [6] Linear Algebra II MTH6106 [6] Group Theory	th School approval and are not guaranteed to give non-clash in-pathway. You must pass at least six level 6 modules <sup>[1]</sup> Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6155 [6] Financial Mathematics II MTH6101 [6] Introduction to Machine Learning MTH6150 [6] Numerical Computing with C and C++* MTH6142 [6] Complex Networks MTH6138 [6] Third Year Project** MTH6110 [6] Communicating & Teaching Mathematics  The Pathway  Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6158 [6] Ring Theory MTH6142 [6] Complex Networks MTH6132 [6] Relativity	
Gene Semester 5 (4 modules)  Choose four from:  MTH6141 [6] Random Processes MTH6154 [6] Financial Mathematics I MTH6151 [6] Partial Differential Equations MTH6115 [6] Cryptography MTH6140 [6] Linear Algebra II MTH6138 [6] Third Year Project**	ch School approval and are not guaranteed to give non-clash n-pathway. You must pass at least six level 6 modules <sup>[1]</sup> Firal Pathway  Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6155 [6] Financial Mathematics II MTH6101 [6] Introduction to Machine Learning MTH6150 [6] Numerical Computing with C and C++* MTH6142 [6] Complex Networks MTH6138 [6] Third Year Project** MTH6110 [6] Communicating & Teaching Mathematics  The Pathway  Semester 6 (4 modules)  Choose four from:  MTH6105 [6] Algorithmic Graph Theory MTH6158 [6] Ring Theory MTH6142 [6] Complex Networks	

#### **Statistics and Financial Pathway**

To choose this Pathway, students must have studied MTH5129.

Semester 5 (4 modules)

Choose <u>four</u> from:

MTH6151 [6] Partial Differential Equations

MTH6141 [6] Random Processes

MTH6154 [6] Financial Mathematics I

MTH6102 [6] Bayesian Statistical Methods

MTH6134 [6] Statistical Modelling II

MTH6138 [6] Third Year Project\*

Semester 6 (4 modules)

Choose <u>four</u> from:

MTH6150 [6] Numerical Computing with C and C++\*

MTH6142 [6] Complex Networks

MTH6155 [6] Financial Mathematics II

MTH6101 [6] Introduction to Machine Learning

MTH6139 [6] Time Series

MTH6113 [6] Mathematical Tools for Asset Management

MTH6138 Third Year Project\*\*

MTH6110 [6] Communicating & Teaching Mathematics\*\*\*

This programme offers a combination of pure and applied mathematics. If you wish to focus on Pure Mathematics or Statistics, then you should consider transferring to G110 or GG31 respectively.

[1] This does not apply to students who enrolled in September 2014 or before.

\*Please note for MTH6150 Numerical Computing with C and C++ there is a cap on the total number of students that can be enrolled to this module.

\*\*Please note that MTH6138 Third Year Project can be taken in either semester but requires approval of Project supervisor prior to the start of the semester in which module is taken.

\*\*\*Please note that MTH6110 has limited spaces and is by interview and approval in Semester A.

## G102/G12Y - MSci Mathematics/MSci Mathematics with Year Abroad

most 30 credits in any year may be from outside the pathway.  YEAR 1		
Semester 1 (4 modules)	Semester 2 (4 modules)	
Someotor ( ( modulos)	Comodor 2 (Timodaloo)	
MTH4114 [4] Computing and Data Analysis with E		
MTH4200 [4] Calculus I	MTH4201 [4] Calculus II	
MTH4207 [4] Introduction to Probability	MTH4215 [4] Vectors and Matrices	
MTH4213 [4] Numbers, Sets and Functions	MTH4216 [4] Probability and Statistics I	
	YEAR 2	
Modules outside this collection may only be taken w	vith School approval. Permission not granted beyond 15 credits.	
Semester 3 (4 modules)	Semester 4 (4 modules)	
MTH5104 [5] Convergence and Continuity	MTH5001 [5] Introduction to Computer Programming	
MTH5112 [5] Linear Algebra I		
MTH5123 [5] Differential Equations	Choose <u>three</u> from:	
Choose <u>one</u> from:	MTH5103 [5] Complex Variables	
	MTH5113 [5] Introduction to Differential Geometry	
MTH5129 [5] Probability and Statistics II	MTH5105 [5] Differential and Integral Analysis	
MTH5130 [5] Number Theory	MTH5120 [5] Statistical Modelling I	
MTH5124 [5] Actuarial Mathematics I	MTH5114 [5] Linear Programming and Games	
	YEAR 3	
Students must choose a pathway and 60 credite	s must be chosen each semester from modules listed for the	
	n with School approval and are not guaranteed to give non-clashi	
	e non-pathway. You must pass at least six level 6 modules <sup>[1]</sup>	
	Beneral Pathway	
Semester 5 (4 modules)	Semester 6 (4 modules)	
	MTH6105 [6] Algorithmic Graph Theory	
MTH6141 [6] Random Processes	MTH6155 [6] Financial Mathematics II	
MTH6154 [6] Financial Mathematics I	MTH6101 [6] Introduction to Machine Learning	
MTH6151 [6] Partial Differential Equations	MTH6150 [6] Numerical Computing with C and C++*	
MTH6115 [6] Cryptography	MTH6142 [6] Complex Networks	
MTH6140 [6] Linear Algebra II	MTH6138 [6] Third Year Project**	
MTH6138 [6] Third Year Project**	MTH6110 [6] Communicating & Teaching Mathematics***	
	withorto [6] Communicating & reaching Mathematics	
	Pure Pathway	
Semester 5 (4 modules)	Semester 6 (4 modules)	
MTU6151 [6] Portial Differential Equations	MTU6105 [6] Algorithmic Croph Theory	
MTH6151 [6] Partial Differential Equations	MTH6105 [6] Algorithmic Graph Theory	
MTH6115 [6] Cryptography	MTH6158 [6] Ring Theory	
MTH6140 [6] Linear Algebra II	MTH6142 [6] Complex Networks	
MTH6106 [6] Group Theory	MTH6132 [6] Relativity	
MTH6107 [6] Chaos and Fractals	MTH6127 [6] Metric Spaces and Topology MTH6138 [6] Third Year Project**	
MTH6138 [6] Third Year Project**	MTH6130 [6] Communicating & Teaching Mathematics***	
	MTHOTTO [6] Communicating & reaching Mathematics	
	and Financial Pathway	
To choose this Pathway,	, students <u>must</u> have studied MTH5129.	
To choose this Pathway,		
To choose this Pathway, Semester 5 (4 modules)  MTH6151 [6] Partial Differential Equations	students <u>must</u> have studied MTH5129.  Semester 6 (4 modules)  MTH6150 [6] Numerical Computing with C and C++*	
To choose this Pathway, Semester 5 (4 modules)  MTH6151 [6] Partial Differential Equations MTH6141 [6] Random Processes	students must have studied MTH5129.  Semester 6 (4 modules)  MTH6150 [6] Numerical Computing with C and C++*  MTH6142 [6] Complex Networks	
To choose this Pathway, Semester 5 (4 modules)  MTH6151 [6] Partial Differential Equations MTH6141 [6] Random Processes MTH6154 [6] Financial Mathematics I	students must have studied MTH5129.  Semester 6 (4 modules)  MTH6150 [6] Numerical Computing with C and C++*  MTH6142 [6] Complex Networks  MTH6155 [6] Financial Mathematics II	
To choose this Pathway, Semester 5 (4 modules)  MTH6151 [6] Partial Differential Equations  MTH6141 [6] Random Processes  MTH6154 [6] Financial Mathematics I  MTH6102 [6] Bayesian Statistical Methods	students must have studied MTH5129.  Semester 6 (4 modules)  MTH6150 [6] Numerical Computing with C and C++* MTH6142 [6] Complex Networks MTH6155 [6] Financial Mathematics II MTH6101 [6] Introduction to Machine Learning	
To choose this Pathway, Semester 5 (4 modules)  MTH6151 [6] Partial Differential Equations MTH6141 [6] Random Processes MTH6154 [6] Financial Mathematics I	students must have studied MTH5129.  Semester 6 (4 modules)  MTH6150 [6] Numerical Computing with C and C++*  MTH6142 [6] Complex Networks  MTH6155 [6] Financial Mathematics II	

	MTH6138 [6] Third Year Project** MTH6110 [6] Communicating & Teaching Mathematics***	
YEAR 4		
Semester 7	Semester 8	
MTH717U [7] MSci Project (30 credits)		
MTH700U [7] Research Methods in Mathematical Sciences		
Choose 75 credits from undergraduate MTH or SPA modules at level 7 (modules with the codes MTH7*U or SPA7*U).  Excluding the following:		
MTH761U [7] Financial Instruments and Markets MTH771U [7] Foundations of Mathematical Modelling MTH790U [7] Programming in C++ for Finance	MTH762U [7] Continuous-time Models in Finance MTH787U [7] Advanced Derivatives Pricing and Risk Management MTH773U [7] Advanced Computing in Finance	

[1] This does not apply to students who enrolled in September 2014 or before.

\*Please note for MTH6150 Numerical Computing with C and C++ there is a cap on the total number of students that can be enrolled to this module.

\*\*Please note that MTH6138 Third Year Project can be taken in either semester but requires approval of Project supervisor prior to the start of the semester in which module is taken.

\*\*\*Please note that MTH6110 has limited spaces and is by interview and approval in Semester A.

#### Pathway Choice Guidance for G100/G102 Students

#### **Pathways**

The three pathways in Year 3 build a coherent collection of modules from which you can go on to a variety of quantitative careers and/or further study, depending on your interests and strengths. When thinking about any changes you want to make for semester 2, don't forget that you need to continue following that Pathway, taking account of what you hope to do after graduation.

Across the year, you can request for consideration by the School, off-diet choices of up to 15 credits in second year and up to 30 credits in third year. Please note that we **cannot** guarantee off-diet modules will not clash with your Pathway choices and, if the modules do clash, you will be required to modify your selection to remove the clash once your timetable has been updated.

### Off-diet modules

Off-diet choices fall into two categories and require different approvals: non-Pathway MTH modules and non-Pathway, non-MTH modules. Such an option should <u>only</u> be pursued if you have a strong interest in the module, have discussed the plan with your Advisor and obtain approvals prior to the start of the semester.

- Non-Pathway MTH modules You should consider taking a non-Pathway MTH module if:
  - o you have a strong interest in the subject
  - you have the time and willingness to explore your options, contact Module Organisers, learn additional material if necessary
  - you accept that there's a chance the module(s) might clash with some of your Pathway modules –
     Pathway modules will take priority over non-Pathway modules when we timetable them

If you decide to take a non-Pathway MTH module prior to the start of the semester, you'll need to get approval from your Advisor and send this to <a href="mailto:maths@qmul.ac.uk">maths@qmul.ac.uk</a>.

- Non-Pathway, non-MTH modules You should consider taking a non-Pathway/non-MTH module if:
  - o you have a strong interest in a subject outside mathematics
  - o you are prepared to adapt to different ways of another discipline such as teaching and assessment
  - o you have the time and willingness to explore your options, contact Module Organisers, learn additional material if necessary
  - you accept that there's a chance the module(s) might clash with some of your Pathway modules -Pathway modules will take priority over non-Pathway modules when we timetable them

If you decide to take a non-Pathway, non-MTH module prior to the start of the semester, you will need to get approval from your Advisor <u>as well as</u> contacting the module Home School to:

- check if they have space on their module
- check that you meet the prerequisite or co-requisite requirements for the module
- obtain permission to take the module(s) from the Home School's Education Services Team and forward this to the School of Maths Education Services Team via maths@gmul.ac.uk

If the non-Pathway module you're considering is from another School within the Faculty of Science and Engineering, in addition to module Home School permission, you'll also need permission from the School of Mathematical Sciences Deputy Director of Education.

#### Notes

- Level 4 modules cannot be selected in Year 3 (and only in exceptional cases in Year 2)
- Only in very exceptional cases will the School consider the selection of 30 credits outside of the pathway for students in Year 2
- Students <u>are not</u> permitted to choose modules from either the School Of Economics and Finance, or the School of Business and Management [ECN- or BUS-coded modules]

Please don't leave these checks until the last minute to ensure you get the chance to study the modules you want.