

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

PRE-2019 COMMENCER STUDY PLAN



3014 School of Mathematical Sciences

Semester 1 Start

[Bachelor of Mathematical Sciences](#)

[Bachelor of Mathematical Sciences \(Advanced\)](#)

[Bachelor of Mathematical & Computer Sciences](#)

[Honour Degree of Bachelor of Mathematical Sciences](#)

[Bachelor of Mathematical & Computer Sciences \(Honours\) – Computer Science Project](#)

[Bachelor of Mathematical & Computer Sciences \(Honours\) – Mathematical Sciences Project](#)

Semester 2 Start

[Bachelor of Mathematical Sciences](#)

[Bachelor of Mathematical Sciences \(Advanced\)](#)

[Bachelor of Mathematical & Computer Sciences](#)

[Bachelor of Mathematical Sciences \(Honours\)](#)

[Bachelor of Mathematical & Computer Sciences \(Honours\)](#)

[Bachelor of Mathematical & Computer Sciences \(Honours\) – Computer Science Project](#)

[Bachelor of Mathematical & Computer Sciences \(Honours\) – Mathematical Sciences Project](#)

PRE-2019 COMMENCER STUDY PLAN

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BACHELOR OF MATHEMATICAL SCIENCES					
YEAR 1	S1	MATHS 1011 Mathematics IA <input type="checkbox"/>	COMP SCI 1012 Scientific Computing ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	Level I Elective -* <input type="checkbox"/>	Level I or II or III Elective -* <input type="checkbox"/>
	S2	MATHS 1012 Mathematics IB <input type="checkbox"/>	MATHS 1008 Mathematics for Information Technology I MATHS 1004 Mathematics For Data Science 1 <input type="checkbox"/>	STATS 1005 Statistical Analysis & Modeling I - <input type="checkbox"/>	Level I or II or III Elective -* <input type="checkbox"/>
YEAR 2	S1	MATHS 2101 Multivariable & Complex Calculus II - <input type="checkbox"/>	MATHS 2102 Differential Equations II - <input type="checkbox"/>	MATHS 2103 Probability & Statistics II - <input type="checkbox"/>	Level I or II or III Elective -* <input type="checkbox"/>
	S2	MATHS 2100 Real Analysis II - <input type="checkbox"/>	STATS 2107 Statistical Modelling and Inference II <input type="checkbox"/>	Level II Elective -* <input type="checkbox"/>	Level II Elective -* <input type="checkbox"/>
YEAR 3	S1	MATHS 3025 Professional Practice III <input type="checkbox"/>	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>	Level III Elective -* <input type="checkbox"/>
	S2	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ELECTIVES					
Applied Mathematics Courses		APP MTH 2105 Optimisation and Operations Research II <input type="checkbox"/>	APP MTH 3001 Applied Probability III <input type="checkbox"/>	APP MTH 3002 Fluid Mechanics III <input type="checkbox"/>	APP MTH 3014 Optimisation III <input type="checkbox"/>
		APP MTH 3016 Random Processes III <input type="checkbox"/>	APP MTH 3020 Stochastic Decision Theory III <input type="checkbox"/>	APP MTH 3021 Modelling with Ordinary Differential Equations III <input type="checkbox"/>	APP MTH 3022 Optimal Functions and Nanomechanics III <input type="checkbox"/>
		APP MTH 3023 Partial Differential Equations and Waves III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mathematical Sciences Courses		MATHS 2104 Numerical Methods II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



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Pure Mathematics Courses	PURE MTH 2106 Algebra II <input type="checkbox"/>	PURE MTH 3002 Topology and Analysis III <input type="checkbox"/>	PURE MTH 3003 Number Theory III <input type="checkbox"/>	PURE MTH 3007 Groups and Rings III <input type="checkbox"/>
	PURE MTH 3009 Integration and Analysis III <input type="checkbox"/>	PURE MTH 3018 Coding & Cryptology III <input type="checkbox"/>	PURE MTH 3019 Complex Analysis III <input type="checkbox"/>	PURE MTH 3021 Logic & Computability <input type="checkbox"/>
	PURE MTH 3022 Geometry of Surfaces III <input type="checkbox"/>	PURE MTH 3023 Fields and Modules III <input type="checkbox"/>	PURE MTH 3024 Finite Geometry III <input type="checkbox"/>	<input type="checkbox"/>
Statistics Courses	STATS 3001 Statistics Modelling III <input type="checkbox"/>	STATS 3003 Sampling Theory and Practice III <input type="checkbox"/>	STATS 3005 Time Series III <input type="checkbox"/>	<input type="checkbox"/>
	STATS 3006 Mathematical Statistics III <input type="checkbox"/>	STATS 3008 Biostatistics III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Note: Electives may be chosen from courses offered by the School of Mathematical Sciences, School of Computer Sciences or other courses offered by the University of Adelaide. Students will need to satisfy any specified course eligibility requirements. The following electives do not satisfy the program rules for this program: ECON 1008, ECON 1010, ECON 2503 & ECON 2504 cannot be presented as electives toward the BMaSC.

How to choose an elective course in your area of interest? Please refer to the steps **via the link:** <https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment>

Note: MATHS 3025 Professional Practice III has replaced MATHS 3015 Communication Skills III.

PRE-2019 COMMENCER STUDY PLAN

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BACHELOR OF MATHEMATICAL SCIENCES– Semester 2 Start

YEAR 1	S2	MATHS 1011 Mathematics IA <input type="checkbox"/>	MATHS 1008 Mathematics for Information Technology I <input type="checkbox"/> MATHS 1004 Mathematics For Data Science 1 <input type="checkbox"/>	STATS 1005 Statistical Analysis & Modeling I - <input type="checkbox"/>	Level I or II or III Elective -* <input type="checkbox"/>
		YEAR 2	S1	MATHS 1012 Mathematics IB <input type="checkbox"/>	COMP SCI 1012 Scientific Computing - ENG 1002 Programming (Matlab and C) <input type="checkbox"/>
YEAR 3	S2		MATHS 2100 Real Analysis II - <input type="checkbox"/>	STATS 2107 Statistical Modelling and Inference II <input type="checkbox"/>	Level II Elective -* <input type="checkbox"/>
	S1	MATHS 2101 Multivariable & Complex Calculus II <input type="checkbox"/>	MATHS 2102 Differential Equations II - <input type="checkbox"/>	MATHS 2103 Probability & Statistics II - <input type="checkbox"/>	MATHS 3025 Professional Practice III <input type="checkbox"/>
YEAR 4	S2	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>	Level III Applied Mathematics, Pure Mathematics or Statistics Elective - <input type="checkbox"/>	Level II Elective -* <input type="checkbox"/>
	S1	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>	Level III Applied Mathematics, Pure Mathematics or Statistics Elective - <input type="checkbox"/>	Level III Elective -* <input type="checkbox"/>
	S2				

CHOOSE FROM THE FOLLOWING ELECTIVES

Applied Mathematics Courses	APP MTH 2105 Optimisation and Operations Research II <input type="checkbox"/>	APP MTH 3001 Applied Probability III <input type="checkbox"/>	APP MTH 3002 Fluid Mechanics III <input type="checkbox"/>	APP MTH 3014 Optimisation III <input type="checkbox"/>
	APP MTH 3016 Random Processes III <input type="checkbox"/>	APP MTH 3020 Stochastic Decision Theory III <input type="checkbox"/>	APP MTH 3021 Modelling with Ordinary Differential Equations III <input type="checkbox"/>	APP MTH 3022 Optimal Functions and Nanomechanics III <input type="checkbox"/>
	APP MTH 3023 Partial Differential Equations and Waves III <input type="checkbox"/>			

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Mathematical Sciences Courses	MATHS 2104 Numerical Methods II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pure Mathematics Courses	PURE MTH 2106 Algebra II <input type="checkbox"/>	PURE MTH 3002 Topology and Analysis III <input type="checkbox"/>	PURE MTH 3003 Number Theory III <input type="checkbox"/>	PURE MTH 3007 Groups and Rings III <input type="checkbox"/>
	PURE MTH 3009 Integration and Analysis III <input type="checkbox"/>	PURE MTH 3018 Coding & Cryptology III <input type="checkbox"/>	PURE MTH 3019 Complex Analysis III <input type="checkbox"/>	PURE MTH 3021 Logic & Computability <input type="checkbox"/>
	PURE MTH 3022 Geometry of Surfaces III <input type="checkbox"/>	PURE MTH 3023 Fields and Modules III <input type="checkbox"/>	PURE MTH 3024 Finite Geometry III <input type="checkbox"/>	<input type="checkbox"/>
Statistics Courses	STATS 3008 Biostatistics III <input type="checkbox"/>	STATS 3001 Statistics Modelling III <input type="checkbox"/>	STATS 3003 Sampling Theory and Practice III <input type="checkbox"/>	STATS 3005 Time Series III <input type="checkbox"/>
	STATS 3006 Mathematical Statistics III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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BACHELOR OF MATHEMATICAL SCIENCES (ADVANCED)					
YEAR 1	S1	MATHS 1011 Mathematics IA <input type="checkbox"/>	COMP SCI 1012 Scientific Computing - ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MATHS 1015 Advanced Mathematical Perspectives I <input type="checkbox"/>	Level I or II or III Elective -* <input type="checkbox"/>
	S2	MATHS 1012 Mathematics IB <input type="checkbox"/>	STATS 1005 Statistical Analysis & Modelling I - <input type="checkbox"/>	MATHS 1008 Mathematics for Information Technology + MATHS 1004 Mathematics For Data Science 1 <input type="checkbox"/>	Level I or II or III Elective -* <input type="checkbox"/>
YEAR 2	S1	MATHS 2101 Multivariable & Complex Calculus II - <input type="checkbox"/>	MATHS 2102 Differential Equations II - <input type="checkbox"/>	MATHS 2103 Probability & Statistics II - <input type="checkbox"/>	Level II Elective -* <input type="checkbox"/>
	S2	MATHS 2100 Real Analysis II - <input type="checkbox"/>	MATHS 2203 Advanced Mathematical Perspectives II <input type="checkbox"/>	STATS 2107 Statistical Modelling and Inference II - <input type="checkbox"/>	Level II Elective -* <input type="checkbox"/>
YEAR 3	S1	MATHS 3025 Professional Practice III <input type="checkbox"/>	Level III Mathematical Sciences Elective - <input type="checkbox"/>	Level III Mathematical Sciences Elective - <input type="checkbox"/>	Level III Mathematical Sciences Elective - <input type="checkbox"/>
	S2	Level III Mathematical Sciences Elective - <input type="checkbox"/>	MATHS 3020 Advanced Mathematical Perspectives III <input type="checkbox"/>	Level III Elective - <input type="checkbox"/>	Level III Elective - <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ELECTIVES					
Applied Mathematics Courses		APP MTH 2105 Optimisation and Operations Research II <input type="checkbox"/>	APP MTH 3001 Applied Probability III <input type="checkbox"/>	APP MTH 3002 Fluid Mechanics III <input type="checkbox"/>	APP MTH 3014 Optimisation III <input type="checkbox"/>
		APP MTH 3016 Random Processes III <input type="checkbox"/>	APP MTH 3020 Stochastic Decision Theory III <input type="checkbox"/>	APP MTH 3021 Modelling with Ordinary Differential Equations III <input type="checkbox"/>	APP MTH 3022 Optimal Functions and Nanomechanics III <input type="checkbox"/>
		APP MTH 3023 Partial Differential Equations and Waves III <input type="checkbox"/>			
Mathematical Sciences Courses		MATHS 2104 Numerical Methods II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III <input type="checkbox"/>		

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Pure Mathematics Courses	PURE MTH 2106 Algebra II <input type="checkbox"/>	PURE MTH 3002 Topology and Analysis III <input type="checkbox"/>	PURE MTH 3003 Number Theory III <input type="checkbox"/>	PURE MTH 3007 Groups and Rings III <input type="checkbox"/>
	PURE MTH 3009 Integration and Analysis III <input type="checkbox"/>	PURE MTH 3018 Coding & Cryptology III <input type="checkbox"/>	PURE MTH 3019 Complex Analysis III <input type="checkbox"/>	PURE MTH 3021 Logic & Computability <input type="checkbox"/>
	PURE MTH 3022 Geometry of Surfaces III <input type="checkbox"/>	PURE MTH 3023 Fields and Modules III <input type="checkbox"/>	PURE MTH 3024 Finite Geometry III <input type="checkbox"/>	<input type="checkbox"/>
Statistics Courses	STATS 3008 Biostatistics III <input type="checkbox"/>	STATS 3001 Statistics Modelling III <input type="checkbox"/>	STATS 3003 Sampling Theory and Practice III <input type="checkbox"/>	STATS 3005 Time Series III <input type="checkbox"/>
	STATS 3006 Mathematical Statistics III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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BACHELOR OF MATHEMATICS SCIENCES (ADVANCED)– Semester 2 Start

YEAR 1	S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	STATS 1005 Statistical Analysis & Modelling I - <input type="checkbox"/>	MATHS 1008 Mathematics for Information Technology I <input type="checkbox"/> MATHS 1004 Mathematics For Data Science 1	Level I or II or III Elective -* <input type="checkbox"/>
	S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	COMP SCI 1012 Scientific Computing ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MATHS 1015 Advanced Mathematical Perspectives I <input type="checkbox"/>	Level I or II or III Elective -* <input type="checkbox"/>
YEAR 2	S 2	MATHS 2100 Real Analysis II - <input type="checkbox"/>	STATS 2107 Statistical Modelling and Inference II - <input type="checkbox"/>	MATHS 2203 Advanced Mathematical Perspectives II <input type="checkbox"/>	Level II Elective -* <input type="checkbox"/>
	S 1	MATHS 2101 Multivariable & Complex Calculus II - <input type="checkbox"/>	MATHS 2102 Differential Equations II - <input type="checkbox"/>	MATHS 2103 Probability & Statistics II - <input type="checkbox"/>	Level II Elective -* <input type="checkbox"/>
YEAR 3	S 2	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>	Level II or III Elective - <input type="checkbox"/>	MATHS 3020 Advanced Mathematical Perspectives III <input type="checkbox"/>
	S 1	MATHS 3025 Professional Practice III <input type="checkbox"/>	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>	Level III Applied Mathematics, Pure Mathematics or Statistics Elective - <input type="checkbox"/>	Level III Applied Mathematics, Pure Mathematics or Statistics Elective <input type="checkbox"/>
YEAR 4	S 2				

CHOOSE FROM THE FOLLOWING ELECTIVES

Applied Mathematics Courses	APP MTH 2105 Optimisation and Operations Research II <input type="checkbox"/>	APP MTH 3001 Applied Probability III <input type="checkbox"/>	APP MTH 3002 Fluid Mechanics III <input type="checkbox"/>	APP MTH 3014 Optimisation III <input type="checkbox"/>
	APP MTH 3016 Random Processes III <input type="checkbox"/>	APP MTH 3020 Stochastic Decision Theory III <input type="checkbox"/>	APP MTH 3021 Modelling with Ordinary Differential Equations III <input type="checkbox"/>	APP MTH 3022 Optimal Functions and Nanomechanics III <input type="checkbox"/>
	APP MTH 3023 Partial Differential Equations and Waves III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Mathematical Sciences Courses	MATHS 2104 Numerical Methods II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pure Mathematics Courses	PURE MTH 2106 Algebra II <input type="checkbox"/>	PURE MTH 3002 Topology and Analysis III <input type="checkbox"/>	PURE MTH 3003 Number Theory III <input type="checkbox"/>	PURE MTH 3007 Groups and Rings III <input type="checkbox"/>
	PURE MTH 3009 Integration and Analysis III <input type="checkbox"/>	PURE MTH 3018 Coding & Cryptology III <input type="checkbox"/>	PURE MTH 3019 Complex Analysis III <input type="checkbox"/>	PURE MTH 3021 Logic & Computability <input type="checkbox"/>
	PURE MTH 3022 Geometry of Surfaces III <input type="checkbox"/>	PURE MTH 3023 Fields and Modules III <input type="checkbox"/>	PURE MTH 3024 Finite Geometry III <input type="checkbox"/>	<input type="checkbox"/>
Statistics Courses	<input type="checkbox"/>	STATS 3001 Statistics Modelling III <input type="checkbox"/>	STATS 3003 Sampling Theory and Practice III <input type="checkbox"/>	STATS 3005 Time Series III <input type="checkbox"/>
	STATS 3006 Mathematical Statistics III <input type="checkbox"/>	STATS 3008 Biostatistics III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES					
YEAR 1	S1	MATHS 1011 Mathematics IA -# <input type="checkbox"/>	COMP SCI 1012 Scientific Computing ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	Level I Elective -* <input type="checkbox"/>	Level I or II or III Elective -* <input type="checkbox"/>
	S2	MATHS 1012 Mathematics IB <input type="checkbox"/>	Level I Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level I Elective -* <input type="checkbox"/>	Level I or II or III Elective -* <input type="checkbox"/>
YEAR 2	S1	Level II Elective -* <input type="checkbox"/>	Level II Elective -* <input type="checkbox"/>	Level II Elective -* <input type="checkbox"/>	Level I or II or III Elective -* <input type="checkbox"/>
	S2	Level II Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level II Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level II Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level II Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>
YEAR 3	S1	MATHS 3025 Professional Practice III <input type="checkbox"/>	Level III Elective -* <input type="checkbox"/>	Level III Elective -* <input type="checkbox"/>	Level III Elective -* <input type="checkbox"/>
	S2	Level III Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level III Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level III Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level III Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ELECTIVES				
Applied Mathematics Courses	APP MTH 2105 Optimisation and Operations Research II <input type="checkbox"/>	APP MTH 3001 Applied Probability III <input type="checkbox"/>	APP MTH 3002 Fluid Mechanics III <input type="checkbox"/>	APP MTH 3014 Optimisation III <input type="checkbox"/>
	APP MTH 3016 Random Processes III <input type="checkbox"/>	APP MTH 3020 Stochastic Decision Theory III <input type="checkbox"/>	APP MTH 3021 Modelling with Ordinary Differential Equations III <input type="checkbox"/>	APP MTH 3022 Optimal Functions and Nanomechanics III <input type="checkbox"/>
	APP MTH 3023 Partial Differential Equations and Waves III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mathematical Sciences Courses	MATHS 2104 Numerical Methods II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III <input type="checkbox"/>	MATHS 1008 Mathematics for Information Technology I <input type="checkbox"/> MATHS 1004 Mathematics For Data Science 1	MATHS 1013 Mathematics IM <input type="checkbox"/>

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	MATHS 2100 Real Analysis II <input type="checkbox"/>	MATHS 2101 Multivariable & Complex Calculus II <input type="checkbox"/>	MATHS 2102 Differential Equations II <input type="checkbox"/>	MATHS 2103 Probability & Statistics II <input type="checkbox"/>
Pure Mathematics Courses	PURE MTH 2106 Algebra II <input type="checkbox"/>	PURE MTH 3002 Topology and Analysis III <input type="checkbox"/>	PURE MTH 3003 Number Theory III <input type="checkbox"/>	PURE MTH 3007 Groups and Rings III <input type="checkbox"/>
	PURE MTH 3009 Integration and Analysis III <input type="checkbox"/>	PURE MTH 3018 Coding & Cryptology III <input type="checkbox"/>	PURE MTH 3019 Complex Analysis III <input type="checkbox"/>	PURE MTH 3021 Logic & Computability <input type="checkbox"/>
	PURE MTH 3022 Geometry of Surfaces III <input type="checkbox"/>	PURE MTH 3023 Fields and Modules III <input type="checkbox"/>	PURE MTH 3024 Finite Geometry III <input type="checkbox"/>	<input type="checkbox"/>
Statistics Courses	STATS 2107 Statistical Modelling and Inference II <input type="checkbox"/>	STATS 3001 Statistics Modelling III <input type="checkbox"/>	STATS 3003 Sampling Theory and Practice III <input type="checkbox"/>	STATS 3005 Time Series III <input type="checkbox"/>
	STATS 3006 Mathematical Statistics III <input type="checkbox"/>	STATS 3008 Biostatistics III <input type="checkbox"/>	STATS 1005 Statistical Analysis & Modelling I <input type="checkbox"/>	<input type="checkbox"/>
Computer Sciences Courses	COMP SCI 1010 Puzzle Based Learning <input type="checkbox"/>	COMP SCI 1101 Introduction to Programming <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	COMP SCI 1103 Algorithm Design & Data Structures <input type="checkbox"/>
	COMP SCI 1106 Introduction to Software Engineering <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>	COMP SCI 2005 Systems Programming <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>
	COMP SCI 2203 Problem Solving & Software Development <input type="checkbox"/>	COMP SCI 2204 Advanced Programming Paradigms <input type="checkbox"/>	COMP SCI 3001 Computer Network & Applications <input type="checkbox"/>	COMP SCI 3004 Operation Systems <input type="checkbox"/>
	COMP SCI 3005 Computer Architecture <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	COMP SCI 3007 Artificial Intelligence <input type="checkbox"/>	COMP SCI 3012 Distributed Systems <input type="checkbox"/>
	COMP SCI 3013 Event Driven Computing <input type="checkbox"/>	<input type="checkbox"/>	COMP SCI 3016 Computational Cognitive Science <input type="checkbox"/>	COMP SCI 3301 Advanced Algorithms <input type="checkbox"/>
	COMP SCI 3302 Information Security Professional Practice <input type="checkbox"/>	COMP SCI 3305 Parallel and Distributed Computing <input type="checkbox"/>	COMP SCI 2207 Web & Database Computing <input type="checkbox"/>	<input type="checkbox"/>

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



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Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in summer school.

*Electives may be chosen from courses offered by the School of Mathematical Sciences, School of Computer Sciences or other courses offered by the University of Adelaide. The program rules require students to present at least 36 units of Mathematical and Computer Science Elective of which at least 12 units are at Level III. Students will need to satisfy any specified course eligibility requirements.

The following electives do not satisfy the program rules for this program:

ECON 1008, ECON 1010, ECON 2503 & ECON 2504 cannot be presented as electives toward the BMaCompSc.

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Note: MATHS 3025 Professional Practice III has replaced MATHS 3015 Communication Skills III.

At least 36 units of Mathematical and Computer Sciences courses of which at least 12 units are at Level III. MATHS 3025 Professional Practice III is not considered a Mathematical Sciences course for the purpose of this clause

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BACHELOR OF MATHEMATICAL & COMPUTER SCIENCES– Semester 2 Start

YEAR 1	S2	MATHS 1011 Mathematics IA -# <input type="checkbox"/>	Level I Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level I Elective -* <input type="checkbox"/>	Level I or II or III Elective -* <input type="checkbox"/>
	S1	MATHS 1012 Mathematics IB <input type="checkbox"/>	COMP SCI 1012 Scientific Computing -ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	Level I Elective -* <input type="checkbox"/>	Level I or II or III Elective -* <input type="checkbox"/>
YEAR 2	S2	Level II Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level II Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level II Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level II Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>
	S1	Level II Elective -* <input type="checkbox"/>	Level II Elective -* <input type="checkbox"/>	Level II Elective -* <input type="checkbox"/>	Level I or II or III Elective -* <input type="checkbox"/>
YEAR 3	S2	Level III Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level III Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level III Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>	Level III Mathematical Sciences or Computer Science Elective - <input type="checkbox"/>
	S1	MATHS 3025 Professional Practice III <input type="checkbox"/>	Level III Elective -* <input type="checkbox"/>	Level III Elective -* <input type="checkbox"/>	Level III Elective -* <input type="checkbox"/>
YEAR 4	S2				

CHOOSE FROM THE FOLLOWING ELECTIVES

Applied Mathematics Courses	APP MTH 2105 Optimisation and Operations Research II <input type="checkbox"/>	APP MTH 3001 Applied Probability III <input type="checkbox"/>	APP MTH 3002 Fluid Mechanics III <input type="checkbox"/>	APP MTH 3014 Optimisation III <input type="checkbox"/>
	APP MTH 3016 Random Processes III <input type="checkbox"/>	APP MTH 3020 Stochastic Decision Theory III <input type="checkbox"/>	APP MTH 3021 Modelling with Ordinary Differential Equations III <input type="checkbox"/>	APP MTH 3022 Optimal Functions and Nanomechanics III <input type="checkbox"/>
	APP MTH 3023 Partial Differential Equations and Waves III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PRE-2019 COMMENCER STUDY PLAN

Mathematical Sciences Courses	MATHS 2104 Numerical Methods II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III <input type="checkbox"/>	MATHS 1008 Mathematics for Information Technology I <input type="checkbox"/> MATHS 1004 Mathematics For Data Science 1	MATHS 1013 Mathematics IM <input type="checkbox"/>
	MATHS 2100 Real Analysis II <input type="checkbox"/>	MATHS 2101 Multivariable & Complex Calculus II <input type="checkbox"/>	MATHS 2102 Differential Equations II <input type="checkbox"/>	MATHS 2103 Probability & Statistics II <input type="checkbox"/>
Pure Mathematics Courses	PURE MTH 2106 Algebra II <input type="checkbox"/>	PURE MTH 3002 Topology and Analysis III <input type="checkbox"/>	PURE MTH 3003 Number Theory III <input type="checkbox"/>	PURE MTH 3007 Groups and Rings III <input type="checkbox"/>
	PURE MTH 3009 Integration and Analysis III <input type="checkbox"/>	PURE MTH 3018 Coding & Cryptology III <input type="checkbox"/>	PURE MTH 3019 Complex Analysis III <input type="checkbox"/>	PURE MTH 3021 Logic & Computability <input type="checkbox"/>
	PURE MTH 3022 Geometry of Surfaces III <input type="checkbox"/>	PURE MTH 3023 Fields and Modules III <input type="checkbox"/>	PURE MTH 3024 Finite Geometry III <input type="checkbox"/>	<input type="checkbox"/>
Statistics Courses	STATS 2107 Statistical Modelling and Inference II <input type="checkbox"/>	STATS 3001 Statistics Modelling III <input type="checkbox"/>	STATS 3003 Sampling Theory and Practice III <input type="checkbox"/>	STATS 3005 Time Series III <input type="checkbox"/>
	STATS 3006 Mathematical Statistics III <input type="checkbox"/>	STATS 3008 Biostatistics III <input type="checkbox"/>	STATS 1005 Statistical Analysis & Modelling I <input type="checkbox"/>	<input type="checkbox"/>
Computer Sciences Courses	COMP SCI 1010 Puzzle Based Learning <input type="checkbox"/>	COMP SCI 1101 Introduction to Programming <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	COMP SCI 1103 Algorithm Design & Data Structures <input type="checkbox"/>
	COMP SCI 1106 Introduction to Software Engineering <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>	COMP SCI 2005 Systems Programming <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>
	COMP SCI 2203 Problem Solving & Software Development <input type="checkbox"/>	COMP SCI 2204 Advanced Programming Paradigms <input type="checkbox"/>	COMP SCI 3001 Computer Network & Applications <input type="checkbox"/>	COMP SCI 3004 Operation Systems <input type="checkbox"/>
	COMP SCI 3005 Computer Architecture <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	COMP SCI 3007 Artificial Intelligence <input type="checkbox"/>	COMP SCI 3012 Distributed Systems <input type="checkbox"/>
	COMP SCI 3013 Event Driven Computing <input type="checkbox"/>	<input type="checkbox"/>	COMP SCI 3016 Computational Cognitive Science <input type="checkbox"/>	COMP SCI 3301 Advanced Algorithms <input type="checkbox"/>

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	COMP SCI 3302 Information Security Professional Practice <input type="checkbox"/>	COMP SCI 3305 Parallel and Distributed Computing <input type="checkbox"/>	COMP SCI 2207 Web & Database Computing <input type="checkbox"/>	<input type="checkbox"/>
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Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in summer school.

*Electives may be chosen from courses offered by the School of Mathematical Sciences, School of Computer Sciences or other courses offered by the University of Adelaide. The program rules require students to present at least 36 units of Mathematical and Computer Science Elective of which at least 12 units are at Level III. Students will need to satisfy any specified course eligibility requirements. The following electives do not satisfy the program rules for this program:

ECON 1008, ECON 1010, ECON 2503 & ECON 2504 cannot be presented as electives toward the BMaCompSc.

How to choose an elective course in your area of interest? Please refer to the steps **via the link:** <https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment>

Note: MATHS 3025 Professional Practice III has replaced MATHS 3015 Communication Skills III.

At least 36 units of Mathematical and Computer Sciences courses of which at least 12 units are at Level III. MATHS 3025 Professional Practice III is not considered a Mathematical Sciences course for the purpose of this clause

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This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

HONOURS DEGREE OF BACHELOR OF MATHEMATICAL SCIENCES

YEAR 1	S1	MATHS 4005A Honours Project in Mathematical Sciences A - <input type="checkbox"/>	MATHS 4005B Honours Project in Mathematical Sciences B <input type="checkbox"/>	Mathematical Sciences Honours Group A Elective - <input type="checkbox"/>	Mathematical Sciences Honours Group A Elective - <input type="checkbox"/>
	S2	MATHS 4005C Honours Project in Mathematical Sciences C - <input type="checkbox"/>	Mathematical Sciences Honours Group A Elective <input type="checkbox"/>	Mathematical Sciences Honours Group A or B Elective - <input type="checkbox"/>	Mathematical Sciences Honours Group A or B or C Elective - <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ELECTIVES

GROUP A ELECTIVES	APP MTH 4046 Applied Mathematics Topic A - Honours - <input type="checkbox"/>	APP MTH 4047 Applied Mathematics Topic B - Honours <input type="checkbox"/>	APP MTH 4048 Applied Mathematics Topic C - Honours <input type="checkbox"/>	APP MTH 4049 Applied Mathematics Topic D - Honours <input type="checkbox"/>
	APP MTH 4051 Applied Mathematics Topic E - Honours - <input type="checkbox"/>	APP MTH 4052 Applied Mathematics Topic F - Honours <input type="checkbox"/>	PURE MTH 4012 Pure Mathematics Topic B - Honours - <input type="checkbox"/>	PURE MTH 4013 Pure Mathematics Topic D - Honours - <input type="checkbox"/>
	PURE MTH 4038 Pure Mathematics Topic A - Honours - <input type="checkbox"/>	PURE MTH 4066 Pure Mathematics Topic E - Honours - <input type="checkbox"/>	STATS 4013 Statistics Topic A - Honours - <input type="checkbox"/>	STATS 4014 Statistics Topic B - Honours - <input type="checkbox"/>
	STATS 4008 Statistics Topic D - Hons <input type="checkbox"/>			
GROUP B ELECTIVES	PURE MTH 4102 Topology and Analysis - Honours <input type="checkbox"/>	APP MTH 4102 Fluid Mechanics - Honours - <input type="checkbox"/>	APP MTH 4114 Optimisation - Honours - <input type="checkbox"/>	PURE MTH 4107 Groups and Rings - Honours <input type="checkbox"/>
	APP MTH 4101 Applied Probability - Honours - <input type="checkbox"/>	APP MTH 4121 Modelling with Ordinary Differential Equations - Honours <input type="checkbox"/>	PURE MTH 4119 Complex Analysis - Honours - <input type="checkbox"/>	STATS 4101 Statistical Modelling - Honours - <input type="checkbox"/>
	APP MTH 4116 Random Processes - Honours <input type="checkbox"/>	APP MTH 4120 Stochastic Decision Theory - Honours - <input type="checkbox"/>	APP MTH 4122 Optimal Functions and Nanomechanics - Honours <input type="checkbox"/>	APP MTH 4123 Partial Differential Equations and Waves - Honours <input type="checkbox"/>
	MATHS 4112 Financial Modelling: Tools & Techniques - Honours <input type="checkbox"/>	PURE MTH 4109 Integration and Analysis - Honours <input type="checkbox"/>	PURE MTH 4122 Geometry of Surfaces - Honours <input type="checkbox"/>	PURE MTH 4123 Fields and Modules - Honours <input type="checkbox"/>
	PURE MTH 4124 Finite Geometry - Honours <input type="checkbox"/>	STATS 4103 Sampling Theory and Practice - Honours <input type="checkbox"/>	STATS 4105 Time Series - Honours <input type="checkbox"/>	STATS 4108 Biostatistics - Honours <input type="checkbox"/>
	STATS 4106 Mathematical Statistics - Honours - <input type="checkbox"/>			

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GROUP C ELECTIVES	APP MTH 4110EX AMSI Applied Mathematics Topic A - Honours <input type="checkbox"/>	APP MTH 4111EX AMSI Applied Mathematics Topic B - Honours <input type="checkbox"/>	PURE MTH 4110EX AMSI Pure Mathematics Topic A - Honours <input type="checkbox"/>	PURE MTH 4111EX AMSI Pure Mathematics Topic B - Honours <input type="checkbox"/>
	STATS 4110EX AMSI Statistics Topic A - Honours	STATS 4111EX AMSI Statistics Topic B - Honours		

Note: Courses to the value of 15 units must be completed from the list of Electives, out of which 9 units must be taken from Group A, 6 units may be taken from Group B and 3 units may be taken from Group C.

Applied Mathematics, Pure Mathematics or Statistics major requirements

In order to acquire a major in Applied Mathematics, Pure Mathematics or Statistics students must complete 9 units of electives in the discipline including 6 units from Group A.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

HONOURS DEGREE OF BACHELOR OF MATHEMATICAL SCIENCES – Semester 2 Start

YEAR 1	S1				
	S2	MATHS 4005A Honours Project in Mathematical Sciences A - <input type="checkbox"/>	MATHS 4005B Honours Project in Mathematical Sciences B <input type="checkbox"/>	Mathematical Sciences Honours Group A Elective - <input type="checkbox"/>	Mathematical Sciences Honours Group A Elective - <input type="checkbox"/>
YEAR 2	S1	MATHS 4005C Honours Project in Mathematical Sciences C - <input type="checkbox"/>	Mathematical Sciences Honours Group A Elective <input type="checkbox"/>	Mathematical Sciences Honours Group A or B Elective - <input type="checkbox"/>	Mathematical Sciences Honours Group A or B or C Elective - <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING ELECTIVES

GROUP A ELECTIVES	APP MTH 4046 Applied Mathematics Topic A - Honours - <input type="checkbox"/>	APP MTH 4047 Applied Mathematics Topic B - Honours <input type="checkbox"/>	APP MTH 4048 Applied Mathematics Topic C - Honours <input type="checkbox"/>	APP MTH 4049 Applied Mathematics Topic D - Honours - <input type="checkbox"/>
	APP MTH 4051 Applied Mathematics Topic E - Honours - <input type="checkbox"/>	APP MTH 4052 Applied Mathematics Topic F - Honours <input type="checkbox"/>	PURE MTH 4012 Pure Mathematics Topic B - Honours - <input type="checkbox"/>	PURE MTH 4013 Pure Mathematics Topic D - Honours - <input type="checkbox"/>
	PURE MTH 4038 Pure Mathematics Topic A - Honours - <input type="checkbox"/>	PURE MTH 4066 Pure Mathematics Topic E - Honours <input type="checkbox"/>	STATS 4013 Statistics Topic A - Honours - <input type="checkbox"/>	STATS 4014 Statistics Topic B -Honours <input type="checkbox"/>
	STATS 4008 Statistics Topic D - Hons <input type="checkbox"/>			
GROUP B ELECTIVES	PURE MTH 4102 Topology and Analysis - Honours <input type="checkbox"/>	APP MTH 4102 Fluid Mechanics - Honours - <input type="checkbox"/>	APP MTH 4114 Optimisation - Honours - <input type="checkbox"/>	PURE MTH 4107 Groups and Rings - Honours - <input type="checkbox"/>
	APP MTH 4101 Applied Probability - Honours - <input type="checkbox"/>	APP MTH 4121 Modelling with Ordinary Differential Equations - Honours <input type="checkbox"/>	PURE MTH 4119 Complex Analysis - Honours - <input type="checkbox"/>	STATS 4101 Statistical Modelling - Honours - <input type="checkbox"/>
	APP MTH 4116 Random Processes - Honours <input type="checkbox"/>	APP MTH 4120 Stochastic Decision Theory - Honours <input type="checkbox"/>	APP MTH 4122 Optimal Functions and Nanomechanics - Honours <input type="checkbox"/>	APP MTH 4123 Partial Differential Equations and Waves - Honours <input type="checkbox"/>
	MATHS 4112 Financial Modelling: Tools & Techniques - Honours <input type="checkbox"/>	PURE MTH 4109 Integration and Analysis - Honours <input type="checkbox"/>	PURE MTH 4122 Geometry of Surfaces - Honours <input type="checkbox"/>	PURE MTH 4123 Fields and Modules - Honours - <input type="checkbox"/>

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	PURE MTH 4124 Finite Geometry - Honours <input type="checkbox"/>	STATS 4103 Sampling Theory and Practice - Honours -	STATS 4105 Time Series - Honours	STATS 4108 Biostatistics - Honours <input type="checkbox"/>
	STATS 4106 Mathematical Statistics – Honours - <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GROUP C ELECTIVES	APP MTH 4110EX AMSI Applied Mathematics Topic A - Honours <input type="checkbox"/>	APP MTH 4111EX AMSI Applied Mathematics Topic B - Honours <input type="checkbox"/>	PURE MTH 4110EX AMSI Pure Mathematics Topic A - Honours <input type="checkbox"/>	PURE MTH 4111EX AMSI Pure Mathematics Topic B - Honours - <input type="checkbox"/>
	STATS 4110EX AMSI Statistics Topic A - Honours -	STATS 4111EX AMSI Statistics Topic B - Honours -	<input type="checkbox"/>	<input type="checkbox"/>

Note: Courses to the value of 15 units must be completed from the list of Electives, out of which 9 units must be taken from Group A, 6 units may be taken from Group B and 3 units may be taken from Group C.

Applied Mathematics, Pure Mathematics or Statistics major requirements

In order to acquire a major in Applied Mathematics, Pure Mathematics or Statistics students must complete 9 units of electives in the discipline including 6 units from Group A.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

HONOURS DEGREE OF BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES – Computer Science Project

YEAR 1	S1	COMP SCI 4015A Computer Science Honours Research Project Part A (6 units) <input type="checkbox"/>	Computer Science Honours Elective <input type="checkbox"/>	Computer Science Honours Elective <input type="checkbox"/>
	S2	Computer Science Honours Research Project Part B (6 units) <input type="checkbox"/>	Computer Science Honours Elective <input type="checkbox"/>	Computer Science Honours Elective <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING COMPUTER SCIENCE ELECTIVES

	COMP SCI 4100 Software Architecture - Honours - <input type="checkbox"/>	COMP SCI 4105 Adaptive Business Intelligence - Honours - <input type="checkbox"/>	COMP SCI 4109 Modern Heuristic Methods - Honours <input type="checkbox"/>	COMP SCI 4110 Special Topics in Computer Science A - Honours
	<input type="checkbox"/>	COMP SCI 4123 Software Process Improvement - Honours - <input type="checkbox"/>	COMP SCI 4177 Solving Engineering Models – Honours - <input type="checkbox"/>	COMP SCI 4191 Commercialising IT Research – Honours -
	COMP SCI 4192 Mobile & Wireless Systems – Honours - <input type="checkbox"/>	COMP SCI 4194 Distributed Databases & Data Mining – Honours -	COMP SCI 4806 Secure Programming - Honours - <input type="checkbox"/>	COMP SCI 4807 Advanced Algorithms – Honours
	COMP SCI 4112 Special Topics in Computer Science B - Honours <input type="checkbox"/>	COMP SCI 4141 Language Translators - Honours - <input type="checkbox"/>	<input type="checkbox"/>	
	COMP SCI 4803 Mining Big Data - Honours - <input type="checkbox"/>	COMP SCI 4195 Evolutionary Computation - Honours - <input type="checkbox"/>	<input type="checkbox"/>	COMP SCI 4802 Introduction to Geometric Algorithms - Honours

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

HONOURS DEGREE OF BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES – Computer Science
Project - Semester 2 Start

YEAR 1	S1			
	S2	COMP SCI 4015A Computer Science Honours Research Project Part A (6 units) <input type="checkbox"/>	Computer Science Honours Elective <input type="checkbox"/>	Computer Science Honours Elective <input type="checkbox"/>
YEAR 2	S1	Computer Science Honours Research Project Part B (6 units) <input type="checkbox"/>	Computer Science Honours Elective <input type="checkbox"/>	Computer Science Honours Elective <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING COMPUTER SCIENCE ELECTIVES

COMP SCI 4100 Software Architecture - Honours - <input type="checkbox"/>	COMP SCI 4105 Adaptive Business Intelligence - Honours - <input type="checkbox"/>	COMP SCI 4109 Modern Heuristic Methods - Honours <input type="checkbox"/>	COMP SCI 4110 Special Topics in Computer Science A - Honours
<input type="checkbox"/>	COMP SCI 4123 Software Process Improvement - Honours - <input type="checkbox"/>	COMP SCI 4177 Solving Engineering Models – Honours - <input type="checkbox"/>	COMP SCI 4191 Commercialising IT Research – Honours -
COMP SCI 4192 Mobile & Wireless Systems – Honours - <input type="checkbox"/>	COMP SCI 4194 Distributed Databases & Data Mining – Honours -	COMP SCI 4806 Secure Programming - Honours - <input type="checkbox"/>	COMP SCI 4807 Advanced Algorithms – Honours
COMP SCI 4112 Special Topics in Computer Science B - Honours <input type="checkbox"/>	COMP SCI 4141 Language Translators - Honours - <input type="checkbox"/>	<input type="checkbox"/>	
COMP SCI 4803 Mining Big Data - Honours - <input type="checkbox"/>	COMP SCI 4195 Evolutionary Computation - Honours - <input type="checkbox"/>	<input type="checkbox"/>	COMP SCI 4802 Introduction to Geometric Algorithms - Honours

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This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

HONOURS DEGREE OF BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES– Mathematical Sciences
Project

YEAR 1	S1	MATHS 4005A Honours Project in Mathematical Sciences A - <input type="checkbox"/>	MATHS 4005B Honours Project in Mathematical Sciences B - <input type="checkbox"/>	Mathematical Sciences Honours Elective - <input type="checkbox"/>	Mathematical Sciences Honours Elective) <input type="checkbox"/>
	S2	MATHS 4005C Honours Project in Mathematical Sciences C - <input type="checkbox"/>	Mathematical Sciences Honours <input type="checkbox"/>	Mathematical Sciences Honours Elective - <input type="checkbox"/>	Mathematical Sciences Honours Elective <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING MATHEMATICAL SCIENCES ELECTIVES

GROUP A ELECTIVES	APP MTH 4046 Applied Mathematics Topic A - Honours - <input type="checkbox"/>	APP MTH 4047 Applied Mathematics Topic B - Honours <input type="checkbox"/>	APP MTH 4048 Applied Mathematics Topic C - Honours - <input type="checkbox"/>	APP MTH 4049 Applied Mathematics Topic D - Honours - <input type="checkbox"/>
	APP MTH 4051 Applied Mathematics Topic E - Honours - <input type="checkbox"/>	APP MTH 4052 Applied Mathematics Topic F - Honours <input type="checkbox"/>	PURE MTH 4012 Pure Mathematics Topic B - Honours - <input type="checkbox"/>	PURE MTH 4013 Pure Mathematics Topic D - Honours - <input type="checkbox"/>
	PURE MTH 4038 Pure Mathematics Topic A - Honours - <input type="checkbox"/>	PURE MTH 4066 Pure Mathematics Topic E - Honours <input type="checkbox"/>	STATS 4013 Statistics Topic A - Honours - <input type="checkbox"/>	STATS 4014 Statistics Topic B -Honours <input type="checkbox"/>
	STATS 4008 Statistics Topic D - Hons <input type="checkbox"/>			
GROUP B ELECTIVES	PURE MTH 4102 Topology and Analysis - Honours <input type="checkbox"/>	APP MTH 4102 Fluid Mechanics - Honours - <input type="checkbox"/>	APP MTH 4114 Optimisation - Honours - <input type="checkbox"/>	PURE MTH 4107 Groups and Rings - Honours <input type="checkbox"/>
	APP MTH 4101 Applied Probability - Honours - <input type="checkbox"/>	APP MTH 4121 Modelling with Ordinary Differential Equations - Honours - <input type="checkbox"/>	PURE MTH 4119 Complex Analysis - Honours - <input type="checkbox"/>	STATS 4101 Statistical Modelling -Honours <input type="checkbox"/>
	APP MTH 4116 Random Processes - Honours <input type="checkbox"/>	APP MTH 4120 Stochastic Decision Theory - Honours <input type="checkbox"/>	APP MTH 4122 Optimal Functions and Nanomechanics - Honours <input type="checkbox"/>	APP MTH 4123 Partial Differential Equations and Waves - Honours - <input type="checkbox"/>
	MATHS 4112 Financial Modelling: Tools & Techniques - Honours - <input type="checkbox"/>	PURE MTH 4109 Integration and Analysis - Honours - <input type="checkbox"/>	PURE MTH 4122 Geometry of Surfaces - Honours <input type="checkbox"/>	PURE MTH 4123 Fields and Modules - Honours - <input type="checkbox"/>

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	PURE MTH 4124 Finite Geometry - Honours <input type="checkbox"/>	STATS 4103 Sampling Theory and Practice - Honours - <input type="checkbox"/>	STATS 4105 Time Series - Honours - <input type="checkbox"/>	STATS 4108 Biostatistics - Honours <input type="checkbox"/>
	STATS 4106 Mathematical Statistics – Honours - <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GROUP C ELECTIVES	APP MTH 4110EX AMSI Applied Mathematics Topic A - Honours - <input type="checkbox"/>	APP MTH 4111EX AMSI Applied Mathematics Topic B - Honours <input type="checkbox"/>	PURE MTH 4110EX AMSI Pure Mathematics Topic A - Honours - <input type="checkbox"/>	PURE MTH 4111EX AMSI Pure Mathematics Topic B - Honours - <input type="checkbox"/>
	STATS 4110EX AMSI Statistics Topic A - Honours - <input type="checkbox"/>	STATS 4111EX AMSI Statistics Topic B - Honours - <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Applied Mathematics, Pure Mathematics or Statistics major requirements

In order to acquire a major in Applied Mathematics, Pure Mathematics or Statistics students must complete 9 units of electives in the discipline including 6 units from Group A.

Mathematical Sciences major requirements

A student who chooses a Mathematical Sciences project and does not qualify for a discipline major, will receive a major in Mathematical Sciences.

PRE-2019 COMMENCER STUDY PLAN

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

HONOURS DEGREE OF BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES – Mathematical Sciences
Project – Semester 2 Start

YEAR 1	S1				
	S2	MATHS 4005A Honours Project in Mathematical Sciences <input type="checkbox"/>	MATHS 4005B Honours Project in Mathematical Sciences B - <input type="checkbox"/>	Mathematical Sciences Honours Elective - <input type="checkbox"/>	Mathematical Sciences Honours Elective) <input type="checkbox"/>
YEAR 2	S1	MATHS 4005C Honours Project in Mathematical Sciences C - <input type="checkbox"/>	Mathematical Sciences Honours <input type="checkbox"/>	Mathematical Sciences Honours Elective - <input type="checkbox"/>	Mathematical Sciences Honours Elective <input type="checkbox"/>

CHOOSE FROM THE FOLLOWING MATHEMATICAL SCIENCES ELECTIVES

GROUP A ELECTIVES	APP MTH 4046 Applied Mathematics Topic A - Honours <input type="checkbox"/>	APP MTH 4047 Applied Mathematics Topic B - Honours - <input type="checkbox"/>	APP MTH 4048 Applied Mathematics Topic C - Honours <input type="checkbox"/>	APP MTH 4049 Applied Mathematics Topic D - Honours - <input type="checkbox"/>
	APP MTH 4051 Applied Mathematics Topic E - Honours <input type="checkbox"/>	APP MTH 4052 Applied Mathematics Topic F - Honours - <input type="checkbox"/>	PURE MTH 4012 Pure Mathematics Topic B - Honours <input type="checkbox"/>	PURE MTH 4013 Pure Mathematics Topic D - Honours - <input type="checkbox"/>
	PURE MTH 4038 Pure Mathematics Topic A - Honours - <input type="checkbox"/>	PURE MTH 4066 Pure Mathematics Topic E - Honours - <input type="checkbox"/>	STATS 4013 Statistics Topic A - Honours - <input type="checkbox"/>	STATS 4014 Statistics Topic B -Honours <input type="checkbox"/>
	STATS 4008 Statistics Topic D - Hons - <input type="checkbox"/>			
GROUP B ELECTIVES	PURE MTH 4102 Topology and Analysis - Honours <input type="checkbox"/>	APP MTH 4102 Fluid Mechanics - Honours <input type="checkbox"/>	APP MTH 4114 Optimisation - Honours - <input type="checkbox"/>	PURE MTH 4107 Groups and Rings - Honours <input type="checkbox"/>
	APP MTH 4101 Applied Probability - Honours - <input type="checkbox"/>	APP MTH 4121 Modelling with Ordinary Differential Equations - Honours - <input type="checkbox"/>	PURE MTH 4119 Complex Analysis - Honours - <input type="checkbox"/>	STATS 4101 Statistical Modelling - Honours - <input type="checkbox"/>
	APP MTH 4116 Random Processes - Honours <input type="checkbox"/>	APP MTH 4120 Stochastic Decision Theory - Honours - <input type="checkbox"/>	APP MTH 4122 Optimal Functions and Nanomechanics - Honours - <input type="checkbox"/>	APP MTH 4123 Partial Differential Equations and Waves - Honours <input type="checkbox"/>
	MATHS 4112 Financial Modelling: Tools & Techniques - Honours <input type="checkbox"/>	PURE MTH 4109 Integration and Analysis - Honours - <input type="checkbox"/>	PURE MTH 4122 Geometry of Surfaces - Honours <input type="checkbox"/>	PURE MTH 4123 Fields and Modules - Honours - <input type="checkbox"/>

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	PURE MTH 4124 Finite Geometry - Honours <input type="checkbox"/>	STATS 4103 Sampling Theory and Practice - Honours - <input type="checkbox"/>	STATS 4105 Time Series - Honours - <input type="checkbox"/>	STATS 4108 Biostatistics - Honours <input type="checkbox"/>
	STATS 4106 Mathematical Statistics – Honours - <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GROUP C ELECTIVES	APP MTH 4110EX AMSI Applied Mathematics Topic A - Honours <input type="checkbox"/>	APP MTH 4111EX AMSI Applied Mathematics Topic B - Honours - <input type="checkbox"/>	PURE MTH 4110EX AMSI Pure Mathematics Topic A - Honours <input type="checkbox"/>	PURE MTH 4111EX AMSI Pure Mathematics Topic B - Honours <input type="checkbox"/>
	STATS 4110EX AMSI Statistics Topic A - Honours - <input type="checkbox"/>	STATS 4111EX AMSI Statistics Topic B - Honours - <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Applied Mathematics, Pure Mathematics or Statistics major requirements

In order to acquire a major in Applied Mathematics, Pure Mathematics or Statistics students must complete 9 units of electives in the discipline including 6 units from Group A.

Mathematical Sciences major requirements

A student who chooses a Mathematical Sciences project and does not qualify for a discipline major, will receive a major in Mathematical Sciences.