FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

PRE-2019 COMMENCER STUDY PLAN

3014School 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

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

PRE-2019 COMMENCER STUDY PLAN

THE UNIVERSITY of ADELAIDE

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BACHELOR OF MATHEMATICAL SCIENCES

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

CHOOSE FROM THE FOLLOWING ELECTIVES

Applied Mathematics Courses	APP MTH 2105 Optimisation and Operations Research II ☐	APP MTH 3001 Applied Probability III ☐	APP MTH 3002 Fluid Mechanics III ☐	APP MTH 3014 Optimisation III ☐
	APP MTH 3016 Random Processes III ☐	APP MTH 3020 Stochastic Decision Theory III ☐	APP MTH 3021 Modelling with Ordinary Differential Equations III ☐	APP MTH 3022 Optimal Functions and Nanomechanics III ☐
	APP MTH 3023 Partial Differential Equations and Waves III ☐	☐	☐	☐
Mathematical Sciences Courses	MATHS 2104 Numerical Methods II ☐	MATHS 3012 Financial Modelling: Tools & Techniques III ☐	☐	☐

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

PRE-2019 COMMENCER STUDY PLAN

THE UNIVERSITY of ADELAIDE

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

*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:
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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.

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

PRE-2019 COMMENCER STUDY PLAN

THE UNIVERSITY of ADELAIDE

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BACHELOR OF MATHEMATICAL SCIENCES– Semester 2 Start

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

CHOOSE FROM THE FOLLOWING ELECTIVES

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

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

PRE-2019 COMMENCER STUDY PLAN

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

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PRE-2019 COMMENCER STUDY PLAN

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BACHELOR OF MATHEMATICAL SCIENCES (ADVANCED)

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

CHOOSE FROM THE FOLLOWING ELECTIVES

Applied Mathematics Courses	APP MTH 2105 Optimisation and Operations Research II ☐	APP MTH 3001 Applied Probability III ☐	APP MTH 3002 Fluid Mechanics III ☐	APP MTH 3014 Optimisation III ☐
	APP MTH 3016 Random Processes III ☐	APP MTH 3020 Stochastic Decision Theory III ☐	APP MTH 3021 Modelling with Ordinary Differential Equations III ☐	APP MTH 3022 Optimal Functions and Nanomechanics III ☐
	APP MTH 3023 Partial Differential Equations and Waves III ☐	☐	☐	☐
Mathematical Sciences Courses	MATHS 2104 Numerical Methods II ☐	MATHS 3012 Financial Modelling: Tools & Techniques III ☐	☐	☐

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

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

*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:
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BACHELOR OF MATHEMATICS SCIENCES (ADVANCED)– Semester 2 Start

YEAR 1	S2	MATHS 1011 Mathematics IA ☐	STATS 1005 Statistical Analysis & Modelling I - ☐	~~MATHS 1008 Mathematics for Information Technology I~~ **MATHS 1004 Mathematics For Data Science 1** ☐	Level I or II or III Elective -* ☐
YEAR 2	S1	MATHS 1012 Mathematics IB ☐	~~COMP SCI 1012 Scientific Computing~~ **ENG 1002 Programming (Matlab and C)** ☐	MATHS 1015 Advanced Mathematical Perspectives I ☐	Level I or II or III Elective -* ☐
	S2	MATHS 2100 Real Analysis II - ☐	STATS 2107 Statistical Modelling and Inference II - ☐	MATHS 2203 Advanced Mathematical Perspectives II ☐	Level II Elective -* ☐
YEAR 3	S1	MATHS 2101 Multivariable & Complex Calculus II - ☐	MATHS 2102 Differential Equations II - ☐	MATHS 2103 Probability & Statistics II - ☐	Level II Elective -* ☐
	S2	Level III Applied Mathematics, Pure Mathematics or Statistics Elective ☐	Level III Applied Mathematics, Pure Mathematics or Statistics Elective ☐	Level II or III Elective - ☐	MATHS 3020 Advanced Mathematical Perspectives III ☐
YEAR 4	S1	MATHS 3025 Professional Practice III ☐	Level III Applied Mathematics, Pure Mathematics or Statistics Elective ☐	Level III Applied Mathematics, Pure Mathematics or Statistics Elective - ☐	Level III Applied Mathematics, Pure Mathematics or Statistics Elective ☐
	S2				

CHOOSE FROM THE FOLLOWING ELECTIVES

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

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

PRE-2019 COMMENCER STUDY PLAN

THE UNIVERSITY of ADELAIDE

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

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BACHELOR OF MATHEMATICAL AND COMPUTER SCIENCES

YEAR 1	S1	MATHS 1011 Mathematics IA -# ☐	~~COMP SCI 1012 Scientific Computing~~ **ENG 1002 Programming (Matlab and C)** ☐	Level I Elective -* ☐	Level I or II or III Elective -* ☐
	S2	MATHS 1012 Mathematics IB ☐	Level I Mathematical Sciences or Computer Science Elective - ☐	Level I Elective -* ☐	Level I or II or III Elective -* ☐
YEAR 2	S1	Level II Elective -* ☐	Level II Elective -* ☐	Level II Elective -* ☐	Level I or II or III Elective -* ☐
	S2	Level II Mathematical Sciences or Computer Science Elective - ☐	Level II Mathematical Sciences or Computer Science Elective - ☐	Level II Mathematical Sciences or Computer Science Elective - ☐	Level II Mathematical Sciences or Computer Science Elective - ☐
YEAR 3	S1	MATHS 3025 Professional Practice III ☐	Level III Elective -* ☐	Level III Elective -* ☐	Level III Elective -* ☐
	S2	Level III Mathematical Sciences or Computer Science Elective - ☐	Level III Mathematical Sciences or Computer Science Elective - ☐	Level III Mathematical Sciences or Computer Science Elective - ☐	Level III Mathematical Sciences or Computer Science Elective - ☐

CHOOSE FROM THE FOLLOWING ELECTIVES

Applied Mathematics Courses	APP MTH 2105 Optimisation and Operations Research II ☐	APP MTH 3001 Applied Probability III ☐	APP MTH 3002 Fluid Mechanics III ☐	APP MTH 3014 Optimisation III ☐
	APP MTH 3016 Random Processes III ☐	APP MTH 3020 Stochastic Decision Theory III ☐	APP MTH 3021 Modelling with Ordinary Differential Equations III ☐	APP MTH 3022 Optimal Functions and Nanomechanics III ☐
	APP MTH 3023 Partial Differential Equations and Waves III ☐	☐	☐	☐
Mathematical Sciences Courses	MATHS 2104 Numerical Methods II ☐	MATHS 3012 Financial Modelling: Tools & Techniques III ☐	~~MATHS 1008 Mathematics for Information Technology I~~ **MATHS 1004 Mathematics For Data Science 1** ☐	MATHS 1013 Mathematics IM ☐

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

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

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:
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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

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

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BACHELOR OF MATHEMATICAL & COMPUTER SCIENCES– Semester 2 Start

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

CHOOSE FROM THE FOLLOWING ELECTIVES

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

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

FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

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	COMP SCI 3302 Information Security Professional Practice	☐	COMP SCI 3305 Parallel and Distributed Computing	☐	COMP SCI 2207 Web & Database Computing	☐		☐

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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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HONOURS DEGREE OF BACHELOR OF MATHEMATICAL SCIENCES

YEAR 1						
	S1	MATHS 4005A Honours Project in Mathematical Sciences A - ☐	MATHS 4005B Honours Project in Mathematical Sciences B ☐	Mathematical Sciences Honours Group A Elective - ☐	Mathematical Sciences Honours Group A Elective - ☐	
	S2	MATHS 4005C Honours Project in Mathematical Sciences C - ☐	Mathematical Sciences Honours Group A Elective ☐	Mathematical Sciences Honours Group A or B Elective - ☐	Mathematical Sciences Honours Group A or B or C Elective - ☐	

CHOOSE FROM THE FOLLOWING ELECTIVES

GROUP A ELECTIVES				
APP MTH 4046 Applied Mathematics Topic A - Honours - ☐	APP MTH 4047 Applied Mathematics Topic B - Honours ☐	APP MTH 4048 Applied Mathematics Topic C - Honours ☐	APP MTH 4049 Applied Mathematics Topic D - Honours ☐	
APP MTH 4051 Applied Mathematics Topic E - Honours - ☐	APP MTH 4052 Applied Mathematics Topic F - Honours ☐	PURE MTH 4012 Pure Mathematics Topic B - Honours - ☐	PURE MTH 4013 Pure Mathematics Topic D - Honours - ☐	
PURE MTH 4038 Pure Mathematics Topic A - Honours - ☐	PURE MTH 4066 Pure Mathematics Topic E - Honours - ☐	STATS 4013 Statistics Topic A - Honours - ☐	STATS 4014 Statistics Topic B - Honours - ☐	
STATS 4008 Statistics Topic D - Hons ☐				

GROUP B ELECTIVES				
PURE MTH 4102 Topology and Analysis - Honours ☐	APP MTH 4102 Fluid Mechanics - Honours - ☐	APP MTH 4114 Optimisation - Honours - ☐	PURE MTH 4107 Groups and Rings - Honours ☐	
APP MTH 4101 Applied Probability - Honours - ☐	APP MTH 4121 Modelling with Ordinary Differential Equations - Honours ☐	PURE MTH 4119 Complex Analysis - Honours - ☐	STATS 4101 Statistical Modelling - Honours - ☐	
APP MTH 4116 Random Processes - Honours ☐	APP MTH 4120 Stochastic Decision Theory - Honours - ☐	APP MTH 4122 Optimal Functions and Nanomechanics - Honours ☐	APP MTH 4123 Partial Differential Equations and Waves - Honours ☐	
MATHS 4112 Financial Modelling: Tools & Techniques - Honours ☐	PURE MTH 4109 Integration and Analysis - Honours ☐	PURE MTH 4122 Geometry of Surfaces - Honours ☐	PURE MTH 4123 Fields and Modules - Honours ☐	
PURE MTH 4124 Finite Geometry - Honours ☐	STATS 4103 Sampling Theory and Practice - Honours ☐	STATS 4105 Time Series - Honours ☐	STATS 4108 Biostatistics - Honours ☐	
STATS 4106 Mathematical Statistics – Honours - ☐	☐			

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GROUP C ELECTIVES	APP MTH 4110EX AMSI Applied Mathematics Topic A - Honours ☐	APP MTH 4111EX AMSI Applied Mathematics Topic B - Honours ☐	PURE MTH 4110EX AMSI Pure Mathematics Topic A - Honours ☐	PURE MTH 4111EX AMSI Pure Mathematics Topic B - Honours ☐
	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.

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HONOURS DEGREE OF BACHELOR OF MATHEMATICAL SCIENCES – Semester 2 Start

YEAR 1	**S1**						
	S2	MATHS 4005A Honours Project in Mathematical Sciences A -	☐	MATHS 4005B Honours Project in Mathematical Sciences B	☐	Mathematical Sciences Honours Group A Elective -	☐	Mathematical Sciences Honours Group A Elective -	☐
YEAR 2	**S1**	MATHS 4005C Honours Project in Mathematical Sciences C -	☐	Mathematical Sciences Honours Group A Elective	☐	Mathematical Sciences Honours Group A or B Elective -	☐	Mathematical Sciences Honours Group A or B or C Elective -	☐

CHOOSE FROM THE FOLLOWING ELECTIVES

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

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	PURE MTH 4124 Finite Geometry - Honours ☐	STATS 4103 Sampling Theory and Practice - Honours -	STATS 4105 Time Series - Honours	STATS 4108 Biostatistics - Honours ☐
	STATS 4106 Mathematical Statistics – Honours - ☐	☐	☐	☐
GROUP C ELECTIVES	APP MTH 4110EX AMSI Applied Mathematics Topic A - Honours ☐	APP MTH 4111EX AMSI Applied Mathematics Topic B - Honours ☐	PURE MTH 4110EX AMSI Pure Mathematics Topic A - Honours ☐	PURE MTH 4111EX AMSI Pure Mathematics Topic B - Honours - ☐
	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.

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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) ☐	Computer Science Honours Elective ☐	Computer Science Honours Elective ☐
	S2	Computer Science Honours Research Project Part B (6 units) ☐	Computer Science Honours Elective ☐	Computer Science Honours Elective ☐

CHOOSE FROM THE FOLLOWING COMPUTER SCIENCE ELECTIVES

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

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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) ☐	Computer Science Honours Elective ☐	Computer Science Honours Elective ☐
YEAR 2	S1	Computer Science Honours Research Project Part B (6 units) ☐	Computer Science Honours Elective ☐	Computer Science Honours Elective ☐

CHOOSE FROM THE FOLLOWING COMPUTER SCIENCE ELECTIVES

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

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

YEAR 1					
	S1	MATHS 4005A Honours Project in Mathematical Sciences A - ☐	MATHS 4005B Honours Project in Mathematical Sciences B - ☐	Mathematical Sciences Honours Elective - ☐	Mathematical Sciences Honours Elective) ☐
	S2	MATHS 4005C Honours Project in Mathematical Sciences C - ☐	Mathematical Sciences Honours ☐	Mathematical Sciences Honours Elective - ☐	Mathematical Sciences Honours Elective ☐

CHOOSE FROM THE FOLLOWING MATHEMATICAL SCIENCES ELECTIVES

GROUP A ELECTIVES			
APP MTH 4046 Applied Mathematics Topic A - Honours - ☐	APP MTH 4047 Applied Mathematics Topic B - Honours ☐	APP MTH 4048 Applied Mathematics Topic C - Honours - ☐	APP MTH 4049 Applied Mathematics Topic D - Honours - ☐
APP MTH 4051 Applied Mathematics Topic E - Honours - ☐	APP MTH 4052 Applied Mathematics Topic F - Honours ☐	PURE MTH 4012 Pure Mathematics Topic B - Honours - ☐	PURE MTH 4013 Pure Mathematics Topic D - Honours - ☐
PURE MTH 4038 Pure Mathematics Topic A - Honours - ☐	PURE MTH 4066 Pure Mathematics Topic E - Honours ☐	STATS 4013 Statistics Topic A - Honours - ☐	STATS 4014 Statistics Topic B -Honours ☐
STATS 4008 Statistics Topic D - Hons ☐			

GROUP B ELECTIVES			
PURE MTH 4102 Topology and Analysis - Honours ☐	APP MTH 4102 Fluid Mechanics - Honours - ☐	APP MTH 4114 Optimisation - Honours - ☐	PURE MTH 4107 Groups and Rings - Honours ☐
APP MTH 4101 Applied Probability - Honours - ☐	APP MTH 4121 Modelling with Ordinary Differential Equations - Honours - ☐	PURE MTH 4119 Complex Analysis - Honours - ☐	STATS 4101 Statistical Modelling -Honours ☐
APP MTH 4116 Random Processes - Honours ☐	APP MTH 4120 Stochastic Decision Theory - Honours ☐	APP MTH 4122 Optimal Functions and Nanomechanics - Honours ☐	APP MTH 4123 Partial Differential Equations and Waves - Honours - ☐
MATHS 4112 Financial Modelling: Tools & Techniques - Honours - ☐	PURE MTH 4109 Integration and Analysis - Honours - ☐	PURE MTH 4122 Geometry of Surfaces - Honours ☐	PURE MTH 4123 Fields and Modules - Honours - ☐

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

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.

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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 -	☐	MATHS 4005B Honours Project in Mathematical Sciences B -	☐	Mathematical Sciences Honours Elective -	☐	Mathematical Sciences Honours Elective) ☐
YEAR 2	**S1**	MATHS 4005C Honours Project in Mathematical Sciences C -	☐	Mathematical Sciences Honours	☐	Mathematical Sciences Honours Elective -	☐	Mathematical Sciences Honours Elective ☐

CHOOSE FROM THE FOLLOWING MATHEMATICAL SCIENCES ELECTIVES

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

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

<u>Applied Mathematics, Pure Mathematics or Statistics major requirements</u>
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.

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