

2020 Study Plan Template

Bachelor of Mathematical Sciences (Honours)

Please note that this document is provided as a guide only. Students are responsible for ensuring that they have completed 144 units of study according to the official course rule available at <https://students.flinders.edu.au/my-course/course-rules/undergrad/bmsch>

Students are responsible for planning their Core, Option and Elective Topics ahead to ensure they meet the topic prerequisites.

A list of all topics, including topic prerequisite information and alternate study period availabilities, is available at [Topics 2020](#).

Semester 1, 2020 start:

Year 1	S1	MATH1121 Mathematics 1A (4.5 units)	STAT1121 Data Science (4.5 units)	ENGR1401 Professional Skills (4.5 units)	One of: COMP1102 (4.5 unit) ENGR1721 (4.5 units)	Elective Topic (4.5 units)	Elective Topic (4.5 units)
	S2	MATH1122 Mathematics 1B (4.5 units)	STAT1132 Statistics 1 (4.5 units)				
Year 2	S1	MATH2702 Linear Algebra and Differential Equations (4.5 units)	MATH2711 Several Variable Calculus (4.5 units)	COMP2781 Computer Mathematics (4.5 units)	STAT2701 Statistical Project (4.5 units)	Elective Topic (4.5 units)	
	S2	MATH2701 Principles of Analysis (4.5 units)	MATH2722 Numerical Analysis (4.5 units)				
Year 3	S1	MATH3702 Methods of Applied Mathematics (4.5 units)	MATH3731 Algebra (4.5 units)	STAT3701 Statistical Science (4.5 units)	Elective Topic (4.5 units) #		
	S2	MATH3711 Complex Analysis (4.5 units)	MATH3712 Partial Differential Equations (4.5 units)				

Year 4	S1	MATH7700A Honours Thesis (4.5/18 units)	MATH7700B Honours Thesis (4.5/18 units)	Honours Year Option topic (4.5units) ^	Honours Year Option topic (4.5units) ^
	S2	MATH7700C Honours Thesis (4.5/18 units)	MATH7700D Honours Thesis (4.5/18 units)	Honours Year Option topic (4.5units) ^	Honours Year Option topic (4.5units) ^

Semester 2, 2020 start:

Year 1	S2	MATH1122 Mathematics 1B (4.5 units)	STAT1132 Statistics 1 (4.5 units)	ENGR1401 Professional Skills (4.5 units)	One of: COMP1102 (4.5 unit) ENGR1721 (4.5 units)	Elective Topic (4.5 units)	Elective Topic (4.5 units)
	S1	MATH1121 Mathematics 1A (4.5 units)	STAT1121 Data Science (4.5 units)				
Year 2	S2	MATH2701 Principles of Analysis (4.5 units)	MATH2722 Numerical Analysis (4.5 units)	STAT2702 Probability (4.5 units)		Elective Topic (4.5 units)	
	S1	MATH2702 Linear Algebra and Differential Equations (4.5 units)	MATH2711 Several Variable Calculus (4.5 units)	COMP2781 Computer Mathematics (4.5 units)		STAT2701 Statistical Project (4.5 units)	
Year 3	S2	MATH3711 Complex Analysis (4.5 units)	MATH3712 Partial Differential Equations (4.5 units)	STAT3702 Stochastic Processes (4.5 units)		Elective Topic (4.5 units) #	
	S1	MATH3702 Methods of Applied Mathematics (4.5 units)	MATH3731 Algebra (4.5 units)	STAT3701 Statistical Science (4.5 units)		Elective Topic (4.5 units) #	
Year 4	S2	MATH7700A Honours Thesis (4.5/18 units)	MATH7700B Honours Thesis (4.5/18 units)	Honours Year Option topic (4.5units) ^		Honours Year Option topic (4.5units) ^	
	S1	MATH7700C Honours Thesis (4.5/18 units)	MATH7700D Honours Thesis (4.5/18 units)	Honours Year Option topic (4.5units) ^		Honours Year Option topic (4.5units) ^	

Key:	
Core Topic	Compulsory topic
Option Topic	A choice from a list of specified topics (see below)
Elective Topics	Elective topics from across the University

<p>Year 1 Option Topics ^: COMP1102 Computer Programming 1 (4.5 units) S1/S2 or ENGR1721 Engineering Programming 1 (4.5 units) S1/S2</p>	<p>Honours Year Option Topics ^: COMP7707 Advanced Data Mining (4.5 units) S2 ENGR7961 Finite Element Methods (4.5 units) S1 MATH7707 Optimisation (4.5 units) S1 MATH7720 Advanced Studies in Mathematics A (4.5 units) S1/S2 MATH7721 Advanced Studies in Mathematics B (4.5 units) S1/S2 MATH7722 Calculus of Variations (4.5 units) S2 MATH7731 Mathematical Problems in Industry (4.5 units) S1 MATH7732 Real Analysis (4.5 units) S2</p> <p>^ Appropriate options made available by other Colleges or Universities, including through the AMSI Summer School, may also be included subject to approval by the Course Coordinator.</p>
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#Eligible students may select this work experience topic in place of electives, with the approval of the Director of Studies (Mathematics and Statistics).

MATH3721 Mathematical Sciences Practicum (9 units)

Plus prerequisite topic ENGR3750 - Workplace Preparation (0 Units) NS1