



PROGRAM NAME	Bachelor of Mathematical Sciences (Optimisation)	PROGRAM CODE	LBMA	SCHOOL CODE	MAT
ACADEMIC PLAN	Undergraduate	YEAR LEVEL	3	CAMPUS	MAWSON LAKES
PROGRAM DIRECTOR	Mr Davide Farchione	EMAIL	Davide.Farchione@unisa.edu.au	PHONE	8302 0448
PROGRAM SUPPORT STAFF	Ms Hayleigh Stenson	EMAIL	Hayleigh.Stenson@unisa.edu.au	PHONE	8302 3083

DEFINITIONS:

- Area + Catalogue Number - A 4-letter area code plus a 4-digit catalogue number make up the course code, eg **BIOL 1033**. You can search for courses by using this code.
- Class Number - Every class at UniSA has a unique number (eg, **24813**). You use this number to enrol. Both the **enrolment class** and **related classes** have class numbers.
- Enrolment Class - This can be a **lecture (LEC)**, **tutorial (TUT)**, **workshop (WSH)** or **practical (PRA)**, to name a few examples. It is the first class you must enter when you are enrolling.
- Related Classes - (Non-Enrol Classes) These are other required components of the course, and are in addition to the **enrolment class**. They can be one of the following class types - **lecture**, **tutorial**, **workshop** or **practical**, to name a few. In most instances you will have a choice (eg, 1 tutorial to be chosen from 7).
However, in some courses, once you select the **enrolment class** you are automatically enrolled (**Auto-enrol**) in a related class (eg. a particular tutorial or practical at a particular time). The class number will be

listed in the Auto-enrol column.

Study Period	Area	Catalogue Number	Course	Enrolment Class	Related Class	Related Class	Notes
SP2	MATH	3009	Optimisation	LEC	TUT	PRA	
				22839	No	No	
SP2	MATH	3025	Differential Equations 2	LEC	TUT	PRA	
				22016	Yes	No	
SP2				LEC	TUT	PRA	Elective – see note 4
SP2				LEC	TUT	PRA	Mathematics Elective – see note 3
SP5	MATH	3010	Advanced Operations Research	LEC	TUT	PRA	
				20524	No	No	
SP5	MATH	3017	Decision Science	LEC	TUT	PRA	
				21981	Yes	No	

SP5				LEC	TUT	PRA	Elective – see note 4
SP5				LEC	TUT	PRA	Mathematics Elective – see notes 3 and 5

NOTES:

1. The table above shows the full list of courses to be taken by a student undertaking a full-time load solely in this year of the program.
2. Students should enrol in all courses for both study periods (Study Period 2 & 5) at the beginning of the year.
3. In Study Period 2, students taking the *Optimisation stream* will be expected to take an elective course, [Optimisation](#), [Differential Equations 2](#) and one of [Investment Science](#), [Operations Research Project I](#) or [Data Structures](#).
In Study Period 5, students taking the *Optimisation stream* will be expected to take an elective course, [Advanced Operations Research](#), [Decision Science](#) and any one of [Applied Functional Analysis](#), [Operations Research Project I](#), [Operations Research Project 2](#), or [Computer Science Topics for Software Engineers](#).
4. Students may select a freely chosen Elective course from any other School of Division. It is recommended that students do not select electives in the disciplines of Computing, Mathematics or Science. A list of elective courses is available from the UniSA website via <http://www.unisanet.unisa.edu.au/programs>. The selection will be subject to availability and satisfaction of pre-requisite requirements.
5. Students intending to take the Honours program will be advised to take [Applied Functional Analysis](#).