

# Bachelor of Mathematics and Economics

Specialisation Code: MA03

To qualify for the award of the degree of Bachelor of Mathematics and Economics a student must satisfactorily complete at least 192 credit points from the Mathematics and Economics Schedule, including

1. no more than 60 credit points of 100 level subjects,
2. one of the subjects CSCI114 or BUSS111,
3. each of the subjects
 

ACCY100	ECON322	MATH201
ECON101	ECON327	MATH202
ECON111	MATH111	MATH203
ECON205	MATH187	MATH302
ECON215	MATH188	MATH317
ECON221	STAT131	MGMT208
4. any **two** of MATH204, MATH212, MATH222, STAT231, STAT232,
5. in *addition* to the above, from the List of Electives, at least 6 credit points each of
  - (a) ACCY, FIN, ECON subjects,
  - (b) ACCY, FIN, ECON, BUSS subjects,
  - (c) ECON subjects *or* STAT232,
  - (d) 200 or 300 level subjects,
  - (e) 300 level MATH subjects.
6. **for Non-Honours**, in *addition* to the above, from the List of Electives,
  - (a) at least 24 credit points of 300 and/or 400 level MATH, STAT and INFO subjects,
  - (b) at least 12 credit points of 300 level ECON subjects,
7. **for Honours**, in *addition* to the above,
  - (a) each of the subjects MATH471, MATH472 and INFO402,
  - (b) at least 6 credit points of 300 level ECON subjects from the List of Electives,
  - (c) at least 6 credit points of 300 and/or 400 level MATH, STAT and INFO subjects from the List of Electives.

## **Recommended Program** (This is a suggested plan only.)

Year 1		Year 2	
ACCY100	BUSS111/CSCI114	ECON215	ECON205
ECON111	ECON101	MATH201	MATH202
MATH187	MATH188	MATH203	Elective
STAT131	MATH111	MATH/STAT200	MATH/STAT200

Note: Stats sub-majors are recommended to take STAT231 and STAT232 in Year 2.

Year 3		Year 4	
ECON221	ECON322	MGMT308	
MATH317	MATH302	ECON327	
Elective	Elective	<i>Non-Honours</i>	<i>Honours</i>
Elective	Elective	6 Electives	MATH471
			MATH472
			INFO402
			2 Electives

See over for List of Electives.

Nov 06

**List of Electives** (See the Calendar for Prerequisite details)

		<i>Credit Points</i>	<i>Session</i>
ACCY102	Accounting 1B	6	2&3
FIN 241	International Financial Management	6	1
BUSS110	Introduction to Business Information Systems	6	1&3
BUSS201	User-Centred Business Programming	6	1
BUSS211	Systems Analysis and Design	6	1
ECON301	Monetary Economics	6	1
ECON305	Economic Policy	6	2
ECON309	Environmental Economics	6	2
ECON310	Cost Benefit Analysis	6	2
ECON317	Economics of Health Care	6	1
ECON322	Mathematical Economics	6	2
ECON331	Financial Economics	6	2
MATH204	Complex Variables and Group Theory	6	2
MATH212	Applied Mathematical Modelling 2	6	2
MATH222	Continuous and Discrete Mathematics	6	1
MATH305	Partial Differential Equations	6	1
MATH321	Numerical Analysis	6	2
MATH322	Algebra	6	1
MATH323	Topology and Chaos	6	2
MATH371	Special Topics in Industrial & Applied Maths	6	
MATH372	Special Topics in Mathematical Analysis	6	
INFO411	Data Mining and Knowledge Discovery	6	2
INFO412	Mathematics for Cryptography	6	1
INFO413	Information Theory	6	2
MATH473	Honours Topics in Maths C	6	
MATH474	Honours Topics in Maths D	6	
STAT231	Statistics 2A	6	1
STAT232	Statistics 2B	6	2
STAT304	Operations Research & Applied Probability	6	2
STAT332	Multiple Regression and Time Series	6	2
STAT333	Statistical Inference & Multivariate Analysis	6	1
STAT335	Sample Surveys & Experimental Design	6	1
STAT373	Special Topics in Stats	6	
STAT471	Honours Topics in Stats A	6	
STAT472	Honours Topics in Stats B	6	