

Students who enroll in Bachelor of Mathematics, must satisfactorily complete at least 144 credit points which must include:

Bachelor of Mathematics 2012

Student Name: _____

Student Number: _____

Contact Phone: _____

Advisers: 2012 _____ 2013 _____

2014 _____

Program of Study

	2012	2013	2014
Summer Session			
Autumn Session			
Spring Session			
Credit Points			

Advanced Standing: _____

1.	<u>MATH187</u>	Mathematics 1: Algebra and Differential Calculus
	AND	
	<u>MATH188</u>	Mathematics 2: Series and Integral Calculus
2.	<u>MATH111</u>	Applied Mathematical Modelling 1 OR
	<u>MATH212</u>	Applied Mathematical Modelling 2
3.	<u>MATH121</u>	Discrete Mathematics OR
	<u>MATH222</u>	Continuous Mathematics
4.	<u>STAT131</u>	Understanding Variation and Uncertainty OR
	<u>STAT231</u>	Probability and Random Variables
5.	<u>CSCI114</u>	Procedural Programming
6.	each of the subjects:	
	<u>MATH201</u>	Multivariate and Vector Calculus
	<u>MATH202</u>	Differential Equations 2
	<u>MATH203</u>	Linear Algebra
	<u>MATH204</u>	Complex Variables and Group Theory
7.	at least one of the subjects:	
	<u>MATH212</u>	Applied Mathematical Modelling 2
	<u>MATH222</u>	Continuous Mathematics
	<u>STAT231</u>	Probability and Random Variables (not additional to 2 or 3 or 4)
8.	300- and/or 400-level subjects from the Mathematics Schedule of subjects with a value of at least:	
	a. 36 credit points, or	
	b. 24 credit points, should a major study in Computer Science also be satisfactorily completed, or	
	c. 30 credit points, should any other major study also be satisfactorily completed	
	d. 48 cp being composed of 24 cp of MATH/INFO and 24 cp of STAT subjects should a double major in both Mathematics and Statistics be completed	
9.	within requirements 1. to 8., a major study in either Mathematics or Applied Statistics, and	
10.	no more than 60 credit points at the 100-level.	
After satisfying the above requirements, the balance of subjects may be selected from either or both the Mathematics Schedule and the General Schedule		

Mathematics Schedule of Subjects:

In addition to the above the following subjects are approved for inclusion in the Bachelor of Mathematics degree.

Subjects		Session	Credit Points
<u>STAT232</u>	Estimation and Hypothesis Testing	Spring	6
<u>MATH302</u>	Differential Equations 3	Autumn	6
<u>MATH305</u>	Partial Differential Equations	Spring	6
<u>MATH312</u>	Applied Mathematical Modelling 3	Autumn	6
<u>MATH313</u>	Industrial Mathematical Modelling	n/o 2012	6
<u>MATH317</u>	Financial Calculus	Autumn	6
<u>MATH321</u>	Numerical Analysis	Spring	6
<u>MATH322</u>	Algebra	Autumn	6
<u>MATH323</u>	Topology and Chaos	Spring	6
<u>MATH324</u>	Calculus of Variations and Geometry	n/o 2012	6
<u>MATH325</u>	Wavelets	n/o 2012	6
<u>MATH329</u>	Medical Mathematics and Applications	n/o 2012	6
<u>MATH371</u>	Special Topics in Industrial and Applied Mathematics 3	Spring	6
<u>MATH372</u>	Special Topics in Mathematical Analysis 3	n/o 2012	6
<u>STAT304</u>	Applied Probability and Financial Risk	Autumn	6
<u>STAT332</u>	Linear & Generalised Linear Models	Spring	6
<u>STAT333</u>	Statistical Inference	Spring	6
<u>STAT335</u>	Sample Surveys and Experimental Design	Autumn	6
<u>STAT373</u>	Special Topics in Probability and Statistics 3	Spring	6
<u>STAT374</u>	Special Topics in Applied Statistics 3	Spring	6
400-Level			
<u>INFO411</u>	Data Mining and Knowledge Discovery	Autumn	6
<u>INFO412</u>	Mathematics for Cryptography	Autumn	6

BMath Proposed Student Course Plan

The form is aimed at providing a tentative schedule for your progress through the BMath degree. It should also be consulted when you are re-enrolling. You may find it easier later if you complete the plan in pencil.

1. Student Details

Please check that these are correct and fill in any missing details.

2. Preferred Area

Please circle one of Applied Statistics or Mathematics so we can allocate an appropriate adviser for the rest of your degree.

3. Honours?

Consider whether you would like to aim for the Honours strand. To be eligible, you will need an average of at least 67.5 for subjects completed in Years 1 to 3. This decision will affect your subject choice.

4. Subject Choice

The compulsory subjects for the BMath degree have already been included on the form. You need to select the other subjects you plan to do to complete your degree from the List of Electives (see enclosed BMath requirements or the *University Handbook* on the University website). Enter the subject name and credit point value as shown by compulsory subjects already entered.

When choosing your subjects, you must be aware of the course requirements, listed in the *University Handbook* (on the web—or see the enclosed requirements). Important points to remember are:

- No more than 66 credit points at the 100 Level.
- At least 72 credit points of MATH and STAT subjects (incl INFO411, INFO412, INFO413).
- At least 72 credit points of ACCY/FIN, ECON and MGMT subjects.
- Select the correct number of electives according to the Recommended Program.
- Select the correct number of 300 and 400 Level subjects—according to whether you plan to do the non-Honours strand or the Honours strand.

5. Credit Points

Enter the number of planned credit points for each level of study. Enter the total at the bottom. Your total MUST be at least 192 credit points.

6. Program of Study

This is the most important section of the form, especially if you are not following the recommended program (see enclosed BMath requirements or the *University Handbook*). You need to make sure you satisfy subject prerequisite and corequisite requirements.

Arrange all the subjects you have chosen into the years you plan to attempt them. (Don't enter the credit point value per subject.) Work out the number of credit points you will attempt in each year and enter that where indicated. Aim for a "balanced" program for each year, with equal credit points attempted in Autumn and Spring Sessions.

7. Signature

Each year, you must initial and date your plan after you have spoken to your Personal Academic Adviser, to indicate that you have discussed the plan with your Adviser.