Graduate Diploma of Mathematics (GDMA) - GradDipMath

CRICOS code (International applicants): 031448M

From Semester 2 2013, the Graduate Diploma of Mathematics (GDMA) will be renamed Graduate Diploma of Science (GDSI). Students interested in the Graduate Diploma of Mathematics (GDMA) will need to apply for the Graduate Diploma of Science.

<table>
<thead>
<tr>
<th>Semester intake:</th>
<th>On-campus</th>
<th>Distance education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus:</td>
<td>Toowoomba</td>
<td>-</td>
</tr>
<tr>
<td>Fees:</td>
<td>Commonwealth supported place</td>
<td>Commonwealth supported place</td>
</tr>
<tr>
<td></td>
<td>Domestic full fee paying place</td>
<td>Domestic full fee paying place</td>
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<tr>
<td></td>
<td>International full fee paying place</td>
<td>International full fee paying place</td>
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</tbody>
</table>

| Standard duration:     | 1 year full-time, 2 years part-time |

Contact us

Current students

Telephone 1800 007 252 (within Australia freecall), +61 7 4631 2285 (from outside Australia), email usq.support@usq.edu.au or submit a question via AskUSQ.

Program focus

This program gives graduates from a non-mathematical area the opportunity to gain knowledge and skills in areas of mathematics that are relevant to their professional or industrial careers.

Program aims

The program aims to provide an opportunity for graduates in programs other than Mathematics to gain skills in key areas of mathematics that relate to the needs of their profession or industry.

Program objectives

Successful completion of the program will enable graduates to:

- acquire specific knowledge and skills in mathematics which are relevant to their disciplines and careers
- become better problem solvers and innovative thinkers and thus be able to contribute at a higher level to their professional environment
- understand the meaning and basis of fundamental mathematical ideas and techniques
- demonstrate the ability to model real-life scenarios in order to enable mathematical analysis
- demonstrate the ability to apply mathematics to the solution of problems in a variety of situations.

Admission requirements

To qualify for entry to the program, applicants must:

- hold a bachelor's degree or a three-year diploma in a non-Mathematics discipline from an Australian university; OR
- hold a degree from a recognised university in a non-Mathematics discipline; OR
- have an approved qualification at least equivalent of the above.

Note: Applicants whose degree or equivalent qualifications include a major in mathematics or statistics will not normally be eligible for admission. In such instances, a case for admission will need to be made to the Head of Department.
International Applicants

International applicants must have met the University's English language requirements or have completed the University’s ELICOS/EAP programs.

Program fees

Commonwealth supported place
A Commonwealth supported place is where the Australian Government makes a contribution towards the cost of your higher education and you as a student pay a student contribution amount, which varies depending on the courses undertaken. You are able to calculate the fees for a particular course via the Course Fee Finder. Commonwealth Supported students may be eligible to defer their fees through a Government loan called HECS-HELP.

Domestic full fee paying place
Domestic full fee paying places are funded entirely through the full fees paid by the student. Full fees vary depending on the courses that are taken. You are able to calculate the fees for a particular course via the Course Fee Finder. Domestic full fee paying students may be eligible to defer their fees through a Government loan called FEE-HELP provided they meet the residency and citizenship requirements. Australian citizens, Permanent Humanitarian Visa holders, Permanent Resident visa holders and New Zealand citizens who will be resident outside Australia for the duration of their program pay full tuition fees and are not eligible for FEE-HELP.

International full fee paying place
International students pay full fees. Full fees vary depending on the courses that are taken and whether they are studied on-campus, via distance education/online. You are able to calculate the fees for a particular course via the Course Fee Finder.

Program structure
The program consists of eight units of study. The courses studied will depend on the student's background in mathematics but at least five will be courses from the Mathematics and Statistics major of the Bachelor of Science.

Students must complete any eight courses from the following table, provided that at least two Level 3 courses are completed and at least five courses are from the Mathematics and Statistics major of the Bachelor of Science.

<table>
<thead>
<tr>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3 (at least two courses from this column:)</th>
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<tbody>
<tr>
<td>MAT1100 Foundation Mathematics</td>
<td>CSC2401 Algorithms and Data Structures</td>
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<tr>
<td>MAT1101 Discrete Mathematics for Computing</td>
<td>MAT2409 High Performance Numerical Computing^</td>
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<tr>
<td>MAT1102 Algebra and Calculus I^ or MAT1502</td>
<td>MAT2100 Algebra and Calculus II^  or MAT2500 Engineering Mathematics 3</td>
<td>MAT3105 Harmony of Partial Differential Equations##</td>
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<tr>
<td>MAT1200 Operations Research I^</td>
<td>STA2300 Data Analysis</td>
<td>MAT3103 Mathematical Modelling for Dynamics##</td>
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<tr>
<td>CSC1401 Foundation Programming</td>
<td>STA2301 Distribution Theory^</td>
<td>MAT3104 Mathematical Modelling in Financial Economics##</td>
</tr>
<tr>
<td>MAC1901 Mathematics for Teachers</td>
<td>STA2302 Statistical Inference^</td>
<td>MAT3201 Operations Research 2##</td>
</tr>
<tr>
<td></td>
<td>CSC2402 Object-Oriented Programming in C++</td>
<td>STA3300 Experimental Design^</td>
</tr>
<tr>
<td></td>
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<td>STA3301 Statistical Models^</td>
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</table>

This version produced 11 Nov 2013.
Footnotes

^ This course is part of the Mathematics and Statistics major of the Bachelor of Science.
# Available in even-numbered years.
* Available in odd-numbered years.

Required time limits

Students have a maximum of 3 years to complete this program.

IT requirements

Students should visit the USQ minimum computing standards to check that their computers are capable of running the appropriate software and versions of Internet web browsers and to check the minimum and recommended standards for software.

Enrolment

Enrolment patterns will need to be determined for individual students. On acceptance into the program, students must submit an enrolment pattern for approval to the Undergraduate Coordinator, Mathematics and Computing. Pre-requisite courses should be taken as a guide to the assumed knowledge required for a course. It is the student's responsibility to ensure that they have the assumed knowledge before enrolling in a particular course.

Recommended enrolment pattern

There is no recommended enrolment pattern for this program. Students should select their own. If unsure about a suitable enrolment pattern, students should contact the Program Coordinator.