

## Core Course

Course Name
Functional Analysis
Theory of Integration
General Topology
Differential equations: Theory and applications
Research Project

## Electives

Course Name
Numerical Methods for Partial Differential Equations
Time Series Analysis & Forecasting
Stochastic Processes
Numerical Analysis

**N.B. Elective courses offered are subject to change based on the availability**

### Application

Application is available online (free) from <http://www.mona.uwi.edu/postgrad/>.

The deadline for submission of application is January 31

Visit our website at <http://myspot.mona.uwi.edu/mathematics/>

Prepared by the Department of Mathematics  
UWI Mona  
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The University of the West Indies  
Mona Campus

DEPARTMENT OF MATHEMATICS

# MSC MATHEMATICS BROCHURE 2013/14 ACADEMIC YEAR



The Department of Mathematics offers the **MSc Mathematics** as a taught graduate programme.

**Objectives of the programme:**

Provide graduates with a comprehensive advanced knowledge of important areas of mathematics.

Produce graduates with high level analytic and numerical skills required in a 21<sup>st</sup> century economy.

Enable graduates to function effectively as teachers, at both the school and university levels.

Furnish graduates with the necessary background for further study in Mathematics, and enhance their research capability.

**Entry Requirements:**

To be admitted to the MSc. programme a candidate should normally have a Bachelors, BSc (Mathematics), degree from a recognized university with at least Lower Second Class Honours.

Candidates with different qualifications may be considered but will be required to pass qualifying courses, as prescribed by the department as follows:

MATH2410 A First Course in Linear algebra, MATH2401 Elements of Mathematical Analysis, and MATH3990 Metric Spaces & Topology (or equivalent).

**Duration of programme**

Part time only: 27 months

**Class Schedule**

Mondays - Thursdays 5 p.m. – 8 p.m.

**Cost of the programme:**

For the 2013/14 academic year (*normally the same as the UGC funded course i.e. it is subsidized by the Jamaican Government*)

**Programme Structure**

The MSc Mathematics is currently offered as a part-time programme commencing in Semester II of the 13/14 academic year, and an indicative programme structure based on previous offerings is given below.

To fulfill the requirements for the MSc, students must take a minimum of 26 credits from the list of core courses, which must include MATH6800 Graduate Research Project, and sufficient further credits from the list of elective courses to achieve a minimum credit total of 44.

**Curriculum**

An indicative syllabus based on pass offerings of the programme is below:

Year I	
Semester II (13/14)	Semester I (14/15)
Theory of Integration	Functional Analysis
General Topology	Differential Equations: theory & applications

Year II	
Semester II (14/15)	Semester I (15/16)
Stochastic Processes	Numerical Methods for Partial Differential Equations
Time Series Analysis	Research Project