

Programme Overview

The MSc in Applied Data Science provides for the development of key competencies in an expanding and increasingly demanding subject area of study. The programme seeks to develop a cadre of graduates with the key skills necessary to extract, apply and develop algorithms to make sense of data and scaling those methods in different platforms. The programme is meant to provide experiential and much practical engagement once the theoretic concepts have been introduced. It is expected that the graduate will both understand the reasons why these techniques work, and possess the ability to modify, extend and apply them in various specialty areas using the available tools and algorithms. Therefore, the programme provides tangible, immediately applicable skills coupled with foundations that allow the expansion of these for the ever-increasing application areas for data science.

The programme offers a Graduate Diploma and Master of Science (MSc), allowing students to be immersed into data science at two levels. The diploma provides an introduction to the fundamentals and application areas; the MSc extends the breadth of coverage in the discipline.

OBJECTIVES

- To develop competence in students to identify and apply Data Science solutions to real world situations;
- Provide advanced level Data Science education to better enable students to impact their organizations;
- Equip students with skills necessary to advance in Data Science careers (Big Data, Analytics, Machine Learning, Knowledge Management)

Entry Requirements

- Minimum entry requirement for either the Graduate Diploma or MSc is a first degree (with a GPA of 2.5 or better) from an accredited university in any Natural, Applied or Social Science.
- Applicants from other disciplines may be accepted based on demonstrated quantitative coursework.

How to Apply

Visit <https://www.mona.uwi.edu/entry-requirements>, click on **apply now**, create an account and follow the instructions.

Submit supporting documents to
Assistant Registrar, Office of Graduate Studies and Research,
The University of the West Indies, Mona Campus

Request degree granting institutions other than The UWI to forward official transcripts directly to the **Office of Graduate Studies and Research, The University of the West Indies, Mona Campus.**

Duration

The programme has a duration of 24 months (part-time) inclusive of time needed for completion of the major Research Project

Programme Structure

- A Graduate Certificate in Applied Data Science requires 15 credits from [COMP4217, COMP4610, COMP4620, COMP4621, COMP5630]
- A Graduate Diploma in Applied Data Science requires 25 credits from [COMP4217, COMP4610, COMP4620, COMP4621, COMP5630] **plus** COMP6820.
- The MSc in Applied Data Science requires 42 credits as set out below.

COURSE CODE	COURSE TITLES	CREDITS
COMP4217	Database Management Systems	3
COMP4610	Statistics for Data Science	3
COMP4620	Programming Principles	3
COMP4621	Programming for Data Science	3
COMP5630	Data Visualization	3
COMP6115	Knowledge Discovery and Data Analytics 1	4
COMP6125	Knowledge Discovery and Data Analytics 2	4
COMP6130	Big Data Analytics	3
COMP6815	Data Science Seminar	2
COMP6720	Advanced Databases Systems	4
COMP6820	Data Science Capstone Group Project I	3
COMP6830	Data Science Capstone Group Project II	6
Plus additional MSc Computer Science electives to meet the credit requirements.		

Schedule

Classes are held Monday to Thursday,
5:30 pm. to 9:30 pm.

Contact Information

The University of the West Indies
Mona, Kingston 7, Jamaica, West Indies
Faculty of Science and Technology
Department of Computing

Dr. Carl Beckford
Programme Coordinator
Telephone: (876) 970 0923
Email: carl.beckford@uwimona.edu.jm

Web: www.mona.uwi.edu/compsci/
Email: msc.cs@uwimona.edu.jm

Web: <https://www.mona.uwi.edu/fst/graduate>
email: fst.pg@uwimona.edu.jm