



Bachelor of Science

# Chemistry and Management

## Overview

The Chemistry and Management major is offered jointly in the Faculty of Science and Technology, at the Department of Chemistry and in the Faculty of Social Sciences, at **Mona School of Business and Management**. The Chemistry and Management major is designed to educate students on the theories, principles and practices of Chemistry and Management. Students who take this major are qualified to commence a career in the field of Chemistry and Management or in other areas of a work organization.

Courses in this major include Chemical Analysis, Accounting, Entrepreneurship and New Venture Creation, Financial Management, Inorganic and Physical Chemistry.

## Entry Requirements

- › Five (5) CXC/CSEC (General Proficiency Grades I-III from June 1998) or GCE/ BGCSE O'Level (Grades A-C) with compulsory subjects: Mathematics and English Language and two (2) CAPE subjects (Units 1 and 2) or GCE/BGCSE A' Level passes in a minimum of two (2) subjects;  
OR
- › An Associate degree, Diploma and/or Certificate from other approved tertiary institutions having attained a B+ average or a minimum GPA of 2.5;  
OR
- › High School (Grade 12) transcript with a minimum GPA of 3.0 and a minimum SAT I score of 1700 plus a minimum of two (2) SAT II subjects at a score of 500 or above or successful completion of Advanced Placement Courses the International Baccalaureate programme.

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Chemistry and Management covers the entire range of activities that brings knowledge of chemical laboratory techniques and the management of processes together with the leading of people into an organization to ensure that the organization's goals are optimized.

**A Chemistry and Management professional must (among other things):**

- › Understand the core functions and strategy of the organization.
- › Understand how the employee contributes to the organization.
- › Understand how to foster a positive relationship between the organization and its environment and help to build positive stakeholder relationships.
- › Possess specific skills such as laboratory techniques and analytical skills.
- › Be ethical and assist the organization to build proper internal governance.

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## Skills Needed

**Intellectual**

- › An above average understanding of human behaviour
- › The ability to understand, apply, analyse and evaluate data
- › Problem-solving

**Professional**

- › Strong ethical values
- › An above average understanding of Laboratory techniques
- › Commitment to lifelong learning
- › Excellent communication skills

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## What can I do with a Degree in Chemistry and Management?

Management and its sub-disciplines work very well with a range of other disciplines because management is a requirement for any organised activity.

- › A graduate with a Chemistry and Management degree can pursue careers in business, particularly in the manufacturing sector as well as in the government sector.
- › The special skills for a Chemistry and Management graduate would also be suitable for an entry level or supervisory position in a laboratory, in the food and beverage sub-sector or even in the marketing of chemical products.

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## Career Options:

- › Analytical Chemist
- › Healthcare Scientist
- › Forensic Scientist
- › Research Scientist (Physical Sciences)
- › Chemical Engineer
- › Clinical Biochemistry

- › Pharmacologist
- › Toxicologist
- › Secondary School Teacher
- › Chemical Lab Manager
- › Medical Representative
- › Food and Drug Inspector
- › Administrative Assistant

