

## Entry Requirements

The minimal admission criteria for the MSc Applied Pharmacology program:

First degree in a Clinical or Pre-Clinical discipline, such as, Biochemistry, Physiology, Pharmacology, Pharmacy with a cumulative GPA of 2.0 (Lower Second Class Honours) from a University recognized by the University of The West Indies.

OR

First degree in a Science disciplines with a cumulative GPA of 2.0 (Lower Second Class Honours) from a University recognized by the University of The West Indies with evidence of completion of at least University level-1 Chemistry and Biology.

Additional requirements to be met by all applicants:  
Two letters of recommendations from individuals who can attest to the candidate's character, scientific ability and work experience.

## Improve your job prospects in:

- *Clinical Drug Research*
- *Biopharmaceutics*
- *Clinical Pharmacology*
- *Clinical Pharmacy*
- *Pharmaceutical sales*
- *Pharmaceutical marketing*
- *Regulatory affairs*
- *Drug Policy*
- *Pharmacovigilance*
- *Pharmacoeconomics*
- *Pharmacoepidemiology*
- *Academia*



The University of the  
West Indies  
Mona Campus  
Faculty of Medical Sciences

## Master of Science in

## Applied Pharmacology



Clinical, Industrial, Regulatory

Department of Basic Medical Sciences

4 St. Johnson Close

Mona Campus, Kingston 7, Jamaica

Telephone: 876-977-2216

## Programme Purpose & Objectives

The Applied Pharmacology programme is designed to offer a broad-based learning experience to produce individuals with the theoretical and problem-solving skills necessary for successful careers in drug development, drug sales, pre-clinical research, clinical research, as well influencing health policy and marketing.

On completion of this programme students will be able to:

- Demonstrate an understanding of the fundamental concepts of pharmacology
- Apply basic pharmacology in appreciating how drugs are used therapeutically
- Apply basic pharmacology experimental procedures in an understanding of how drugs are developed
- Demonstrate an understanding about how individual patient factors can influence drug action
- Demonstrate an understanding of the need of regulations to ensure drug efficacy, standard and safety
- Apply market information that is relevant to drug sales.
- Prepare, and execute projects proposal.
- Demonstrate integration of knowledge and skills through a variety of experiences and tools such as comprehensive examinations, executing research project and thesis development.
- Apply knowledge to impact changes that can positively influence policy decisions

## Programme Format

The format will include: lecturers, tutorials, practical sessions, seminars, video, and research project research component. The research component can be done on campus or through institutions that can facilitate the execution.

## Programme Duration

The programme is offered part time over 18 months: 9 months of taught courses and 9 months to complete research component.

## Award of Degree

Satisfactory completion of the MSc Applied Pharmacology degree requires a minimum of 37 credits of which 28 credits are made of core courses. Completion of a minimum of 9 credits of electives specific to clinical, regulatory and industrial pharmacology is also required.

## Programme Cost

Total Cost: \$10,500.00 USD

Cost includes all text books  
complete research component

Core Course	Credit	Semester
Fundamentals of Pharmacology	2	1
Pharmacology by structure and function I	3	1
Experimental Pharmacology I	2	1
Basics Statistical Analysis for Pharmacology	3	1
Pharmacology by structure and function II	3	2
Experimental Pharmacology II	2	2
Basic Research Skill for Pharmacology	2	2
Drug Development, Clinical Trials and Regulations	3	2
Graduate Seminars	2	3,4 & 5
Research project: Development & Execution	6	4, 5 & 6
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Elective Courses	Credit	Semester
Drugs of Abuse: Psychopharmacology <sup>2</sup>	3	3
Biopharmaceutics & Clinical Pharmacokinetics <sup>1,2</sup>	3	3
Paediatric & Geriatric Pharmacology <sup>2</sup>	3	3
Pharmaceutical Sales & Marketing operation <sup>1</sup>	3	3
Pharmacoeconomics <sup>1</sup>	3	3
Pharmacovigilance and Pharmacoepidemiology <sup>1,2</sup>	3	3
Introduction to Pharmaceutical Law and Ethics <sup>1,2</sup>	3	3

1. Encourage elective for students interested in industry & regulatory affairs
2. Encouraged elective for students interested in clinical